STR-GX9ES/GX10ES

SERVICE MANUAL

US Model
STR-GX9ES

US Model
Canadian Model
STR-GX10ES

SONY
SPONTANEOUS TWIN DRIVE
76.0

This photo is GX-10ES.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8-ohm load, both channels driven, from 20 – 20,000 Hz, rated 150 watts (STR-GX10ES) or 130 watts (STR-GX9ES) per channel minimum RMS power, with no more than 0.007% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Dynamic power output
STR-GX10ES
230 watts + 230 watts (8 ohms)
360 watts + 360 watts (4 ohms)
STR-GX9ES
200 watts + 200 watts (8 ohms)
310 watts + 310 watts (4 ohms)

Harmonic distortion
Less than 0.007% at rated output

Frequency response
PHONO: RIAA equalization curve ±0.3 dB
CD,DAT
TAPE
VIDEO 1,2,V3/CDV
(AUDIO)
ADAPTOR
} 2 Hz – 200 kHz $^{+0}_{-3}$ dB
20 Hz – 20 kHz $^{+0}_{-0,2}$ dB

Residual noise Less than 115μV (8 ohms, network A)
Damping factor 60 (8 ohms, 1 kHz)
Dynamic headroom
1.85 dB

Inputs

		Sensitivity	Impedance	S/N(weighting network, input level)
PHONO	MM	2.5 mV	50 kilohms	90 dB 80 dB* (A, 5 mV)
	MC	160 μV	100 ohms	73 dB 74 dB* (A, 0.5 mV)
CD, AUX VIDEO 1,2 V3/CDV TAPE, DAT ADAPTOR IN		150 mV	50 kilohms	105 dB 84 dB* (A, 150 mV)

*'78 IHF

Outputs
VIDEO (1) AUDIO OUT
REC OUT
Voltage 150 mV
Impedance 1 kilohms
HEADPHONES
30 mW (at 8Ω)
Accepts low and high impedance headphones.

Tone controls
BASS
±7,5 dB at 100 Hz (turnover 200 Hz)
±10 dB at 100 Hz (turnover 400 Hz)
TREBLE
±6 dB at 10 kHz (turnover 6 kHz)
±10 dB at 10 kHz (turnover 3 kHz)
MID
±12 dB at 1 kHz

—Continued on next page—

FM stereo/FM-AM Receiver

SONY®

MICROFILM

Muting	–20 dB
Subsonic	15 Hz 6 dB/oct
Loudness	+10 dB at 50 Hz +3 dB at 10 kHz (ATTENUATOR at –30 dB position)

Video section

Inputs	VIDEO 1, 2, 3: 1 Vp-p, 75 ohms
Outputs	VIDEO 1, MONITOR: 1 Vp-p, 75 ohms

FM tuner section AM tuner section

	FM tuner section	**AM tuner section**
Tuning range	87.5 - 108.0 MHz	530 - 1,610 kHz (with the AM tuning interval set at 10 kHz) 522 - 1,611 kHz (with the AM tuning interval set at 9 kHz)
Antenna terminals	300 ohms, balanced 75 ohms, unbalanced	External antenna terminal, loop antenna
Intermediate frequency	10.7 MHz	450 kHz
Sensitivity at 50 dB quieting	16.8 dBf, 1.8μV (mono) 37.9 dBf, 22.5μV (stereo)	—
Usable sensitivity	10.3 dBf, 0.9μV (IHF)	Loop antenna: 50 dB μ/m (at 1,000 kHz) External antenna: 100 μV (at 1,000 kHz)
Signal-to- noise ratio	91 dB (mono) 87 dB (stereo)	50 dB (at 50 mV/m)
Harmonic distortion	0.06% (mono), 0.08% (stereo) at 1 kHz	0.3% (at 50 mV/m, 400 Hz)
Selectivity	90 dB at 400 kHz	40 dB at 10 kHz 35 dB at 9 kHz
Separation	60 dB at 1 kHz	
Frequency response	15 Hz - 15 kHz $^{+0,2}_{-0,5}$ dB	
IM distortion	0.06% (mono) 0.08% (stereo)	
Capture ratio	1.2 dB	
AM suppression ratio	65 dB	
Image response ratio	80 dB	
IF response ratio	90 dB	
Spurious response ratio	100 dB	
RF Intermodulation	80 dB (800 kHz)	

General

System	Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: low-noise NF type Hi GAIN equalizer amplifier, Double-stage-differential, 3 position tone control Power amplifier section: pure complementary pararel SEPP
Power requirements	120 V AC, 60 Hz
Power consumption	STR-GX10ES: For the U.S.A model: 250 watts For the canadian model: 540 VA STR-GX9ES: 230 watts
AC outlets	1 switched (100 W max) 1 unswitched (100 W max)
Dimensions	Approx. 470 × 161 × 436 mm (w/h/d) (18 1/2 × 6 3/8 × 17 1/4 inches) including projecting parts and controls
Weight	Approx. 18.5 kg (40 lb 14 oz) net
Accessories supplied	FM ribbon antenna (1) Antenna connector (1) AM loop antenna (1) Remote Commander Sony battery SUM-3(NS) (for the remote commander)

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

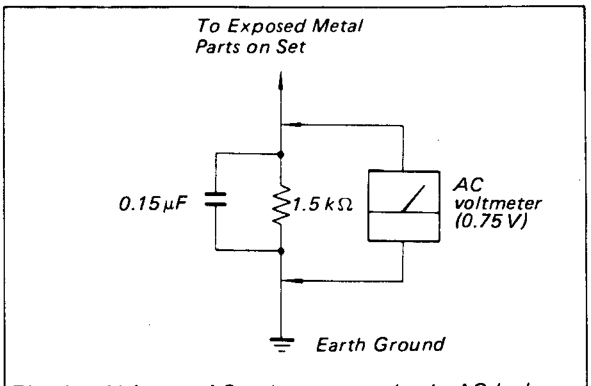


Fig. A. Using an AC voltmeter to check AC leakage.

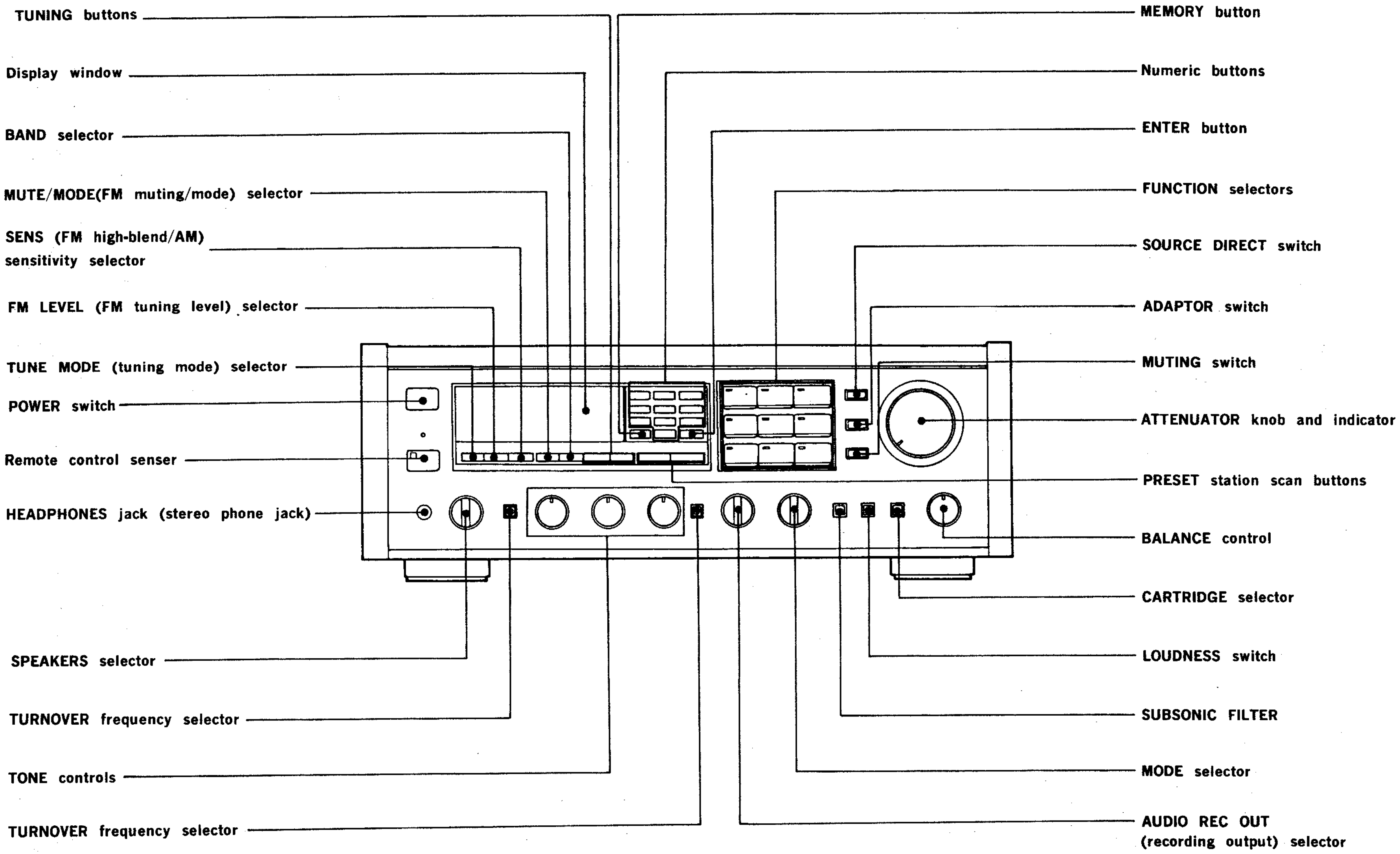
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

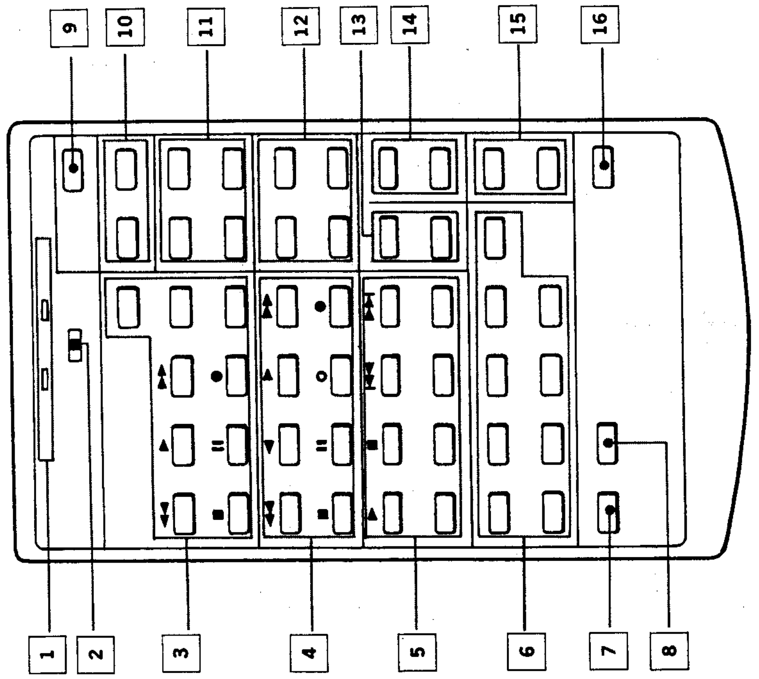
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

1-1. PARTS IDENTIFICATION


TUNING buttons
Display window
BAND selector
MUTE/MODE(FM muting/mode) selector
SENS (FM high-blend/AM) sensitivity selector
FM LEVEL (FM tuning level) selector
TUNE MODE (tuning mode) selector
POWER switch
Remote control senser
HEADPHONES jack (stereo phone jack)
SPEAKERS selector
TURNOVER frequency selector
TONE controls
TURNOVER frequency selector
MEMORY button
Numeric buttons
ENTER button
FUNCTION selectors
SOURCE DIRECT switch
ADAPTOR switch
MUTING switch
ATTENUATOR knob and indicator
PRESET station scan buttons
BALANCE control
CARTRIDGE selector
LOUDNESS switch
SUBSONIC FILTER
MODE selector
AUDIO REC OUT (recording output) selector

Programmable commander RM-P103

The supplied programmable commander RM-P103 can learn various functions of other remote commanders emitting infrared rays.
When the command mode selector is set to SONY STD (Sony standard), its buttons can be used to perform the functions below.



The following functions are available with the command mode selector set to SONY STD.

1 **LEARNED and READY indicators** (See page 30)

2 **Command mode selector** (See page 30)

3 **VTR buttons**
TV/VTR: Selects the signal to be output from the VCR, either a TV signal or VCR programs.
◀◀: Rewind
▶: Play
▶▶: Fast forward
■: Stop
II: Pause
●: Recording (While pressing ●, press ▶)
VTR CH: Selects the VCR channel.

If your VCR has a command mode selector
When the command mode selector is set to VTR 1, you should set the command mode selector of the RM-P103 commander to SONY STD.
When the command mode selector is set to VTR 2, you should set the command mode selector to USER STD.

4 **TAPE buttons**
◀◀: Reverse fast winding
◀: Reverse play
▶: Forward play
▶▶: Forward fast winding
■: Stop
II: Pause
○: Record muting
●: Recording (while pressing ●, press ◀ or ▶)

5 **CD buttons**
▶: Starts play
■: Stops play
|◀◀/▶▶|: AMS (Automatic Music Sensor) buttons
PGM: Program play
SHUFFLE: Shuffle play

6 **Function selectors**

7 **SOURCE DIRECT button**

8 **ADAPTOR button**

9 **POWER ON/OFF button**
Turns the power of the receiver on or off.

10 **VTR and TV POWER ON/OFF buttons**
TV: Turns the power of the TV on or off.
VTR: Turns the power of the VCR on or off.

11 **TV buttons**
VOL: Adjusts the sound level of the TV.
CH: Selects the channel to be received by the TV.

12 **Free buttons**

13 **PHONO buttons**
START: Starts record playing.
STOP: Stops record playing.

14 **TUNER PRESET CH buttons**
+ : Selects a higher preset number.
–: Selects a lower preset number.

15 **VOLUME control buttons**
Adjusts the volume of the sound.

16 **MUTING button**

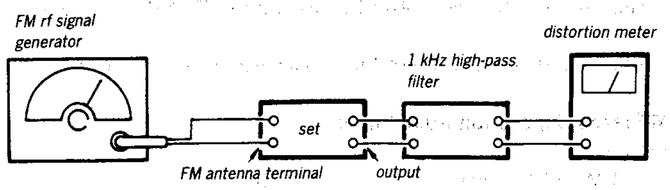
Notes

- SHUFFLE and PGM modes of some CD players cannot be cleared by this remote commander. In such cases, clear the modes using the CD player itself or with the remote commander supplied with the CD player.
- When the CONTROL S OUT connector is connected to the CONTROL S IN connector of each piece of equipment, you can control the connected equipment using this remote commander

Note on the ● (recording) button under 3 VTR buttons
If your VCR is of such type as pressing ● puts it in REC PAUSE mode, first press ● on this commander and then II.

SECTION 2
ELECTRICAL ADJUSTMENTS

FM SECTION

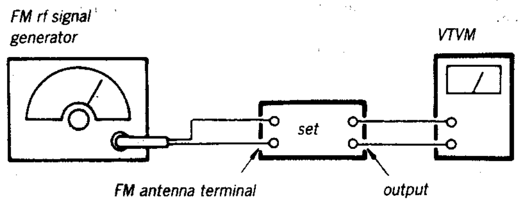


FM STEREO STANDARD SIGNAL	
Carrier frequency:	98 MHz
Modulation:	Audio 1 kHz, 33.75 kHz deviation (45%) Sub-channel 38 kHz, 33.75 kHz deviation (45%) Pilot 19 kHz, 7.5 kHz deviation (10%)
FM MONAURAL STANDARD SIGNAL	
Carrier frequency:	98 MHz
Modulation:	1 kHz, 75 kHz deviation (100%)

Muting Width Adjustment

Setting:

IF BAND:	WIDE
MUTING/MODE switch:	ON
Receiving frequency:	98 MHz



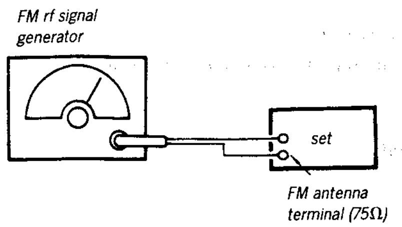
Carrier frequency: *98 MHz +50 kHz, –50 kHz*
Modulation: *1 kHz, 75 kHz deviation (100%)*
Output level: *10 mV (80 dB)*

Procedure:

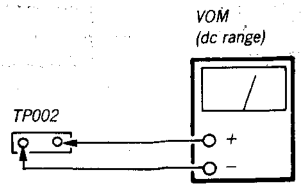
1. Increase the frequency of FM rf signal generator 50 kHz more than that of the receiving frequency and adjust IFT002 to obtain output.
2. Decrease the frequency of FM rf signal generator 50 kHz less than the receiving frequency and make sure to obtain output.
3. Repeat steps 1 and 2, then adjust IFT002 to obtain output when increasing or decreasing the frequency of FM rf signal generator by the same amount.

FM Discriminator Adjustment

Setting:



Carrier frequency: *98 MHz*
Modulation: *1 kHz, 75 kHz deviation (100%)*
Output level: *10 mV (80 dB)*



Procedure:

1. Tune the set to 98 MHz by pressing the TUNING (+, –) buttons.
2. Turn the core (secondary side of IFT004) for 0 V reading on VOM.
3. Turn the core (primary side of IFT003) for minimum distortion reading on the distortion meter.

Note: When replacing the ceramic filter, perform this adjustment. Repeat the secondary-side and primary-side adjustments several times.

Stereo THD Adjustment

Procedure:

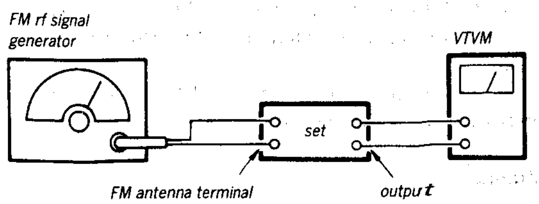
FM rf stereo signal generator: L-CH

1. Tune the set to 98 MHz by pressing the TUNING (+, –) buttons.
2. Adjust IFT001 for minimum distortion reading on the distortion meter.

FM Muting Level Adjustment

Setting:

FM LEVEL switch:	HIGH
MUTING/MODE switch:	ON

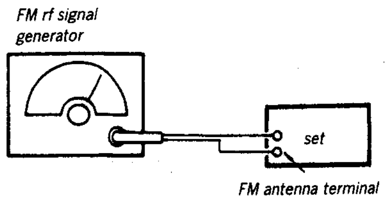


Procedure:

1. Tune the set to 98 MHz by pushing the TUNING (+, –) buttons.
2. Set FM LEVEL switch to HIGH.
3. Adjust RT001 for instantaneous 0 V reading on VTVM.

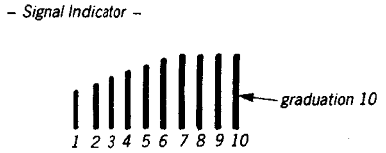
FM Meter Level Adjustment

Setting:


FM rf signal generator
set
FM antenna terminal

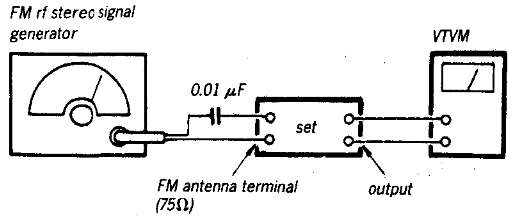
Procedure:

1. Tune the set to 98 MHz by pushing the TUNING (+, –) buttons.
2. Turn RT002 and stop it when the graduation 10 changes from turning off to on.


– Signal Indicator –
graduation 10
1 2 3 4 5 6 7 8 9 10

Pilot Cancel Adjustment

Setting:

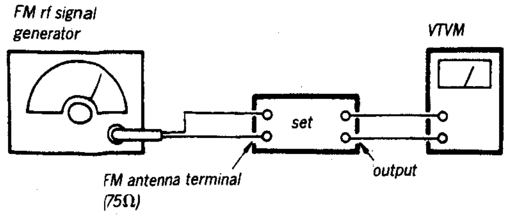

FM rf stereo signal generator
0.01 μF
set
VTVM
FM antenna terminal (75Ω)
output

Procedure:

1. Tune the set to 98 MHz by pressing the TUNING (+, –) buttons and turn OFF the audio modulation of the FM rf stereo signal generator.
2. Adjust RT006 for minimum reading on the VTVM. Output level of both channels should be well balanced.

Tracking Adjustment

Setting:


FM rf signal generator
set
VTVM
FM antenna terminal (75Ω)
output

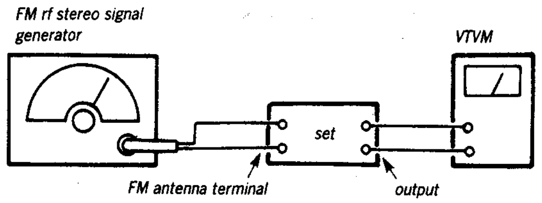
Procedure:

1. Tune the set to 108.0 MHz by pushing the TUNING (+, –) buttons.
2. Adjust L001, L002, and L003 for a maximum reading on VTVM.

FM Stereo Separation Adjustment

Setting:

FM LEVEL switch:	HIGH
MUTING/MODE switch:	ON


FM rf stereo signal generator
VTVM
set
FM antenna terminal
output

Carrier frequency:	*98 MHz*
Output level:	*10 mV (80 dB)*
Modulation:	*Audio 1 kHz, 33.75 kHz deviation (45%) Sub-channel 38 kHz 33.75 kHz deviation (45%) Pilot 19 kHz, 7.5 kHz deviation 7.5 kHz deviation (10%)*

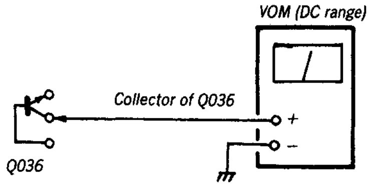
Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT005 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT004 for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ
The separations of both channels should be equal.

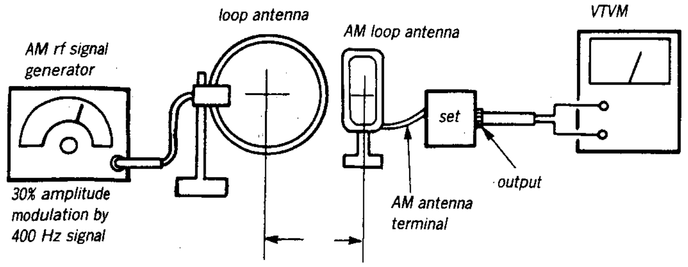
Control Voltage Adjustment

1. Tune the set to 108.0 MHz by pushing the TUNING (+, –) buttons.
2. Adjust L004 for 21.0±0.2 V reading on VOM.
3. Tune the set to 87.5 MHz by pushing the TUNING (+, –) buttons.
4. Check for 8.0±1.0 V reading on VOM.


VOM (DC range)
Collector of Q036
+
–
Q036

AM SECTION

Setting: 9 kHz/10 kHz switch: 9 kHz


loop antenna
AM loop antenna
VTVM
AM rf signal generator
set
output
30% amplitude modulation by 400 Hz signal
AM antenna terminal

AM Meter Level/AM Auto Stop Level Adjustment

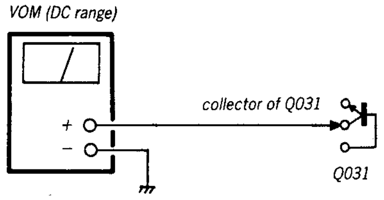
Setting:

AM rf signal generator

Carrier frequency:	*999 kHz*
Modulation:	*400 Hz, 30% modulation*

Procedure:

1. Set AM rf signal generator so that the AM antenna input level becomes 64 dB/m.
2. Adjust RT003 so that all the signal elements 1 to 10 light up.
3. Set AM rf signal generator so that the AM antenna input level becomes 58 dB/m.
4. Adjust RT007 for 1.0 V reading on VOM.
5. Repeat the steps from 1 to 4 several times.


VOM (DC range)
collector of Q031
+
–
Q031

AM Tracking Adjustment

Procedure:

Adjust CT001 so that the output level of 1,000 kHz is a maximum reading on VTVM.

AMPLIFIER SECTION

DC BIAS Adjustment (with no signal input)

Procedure:

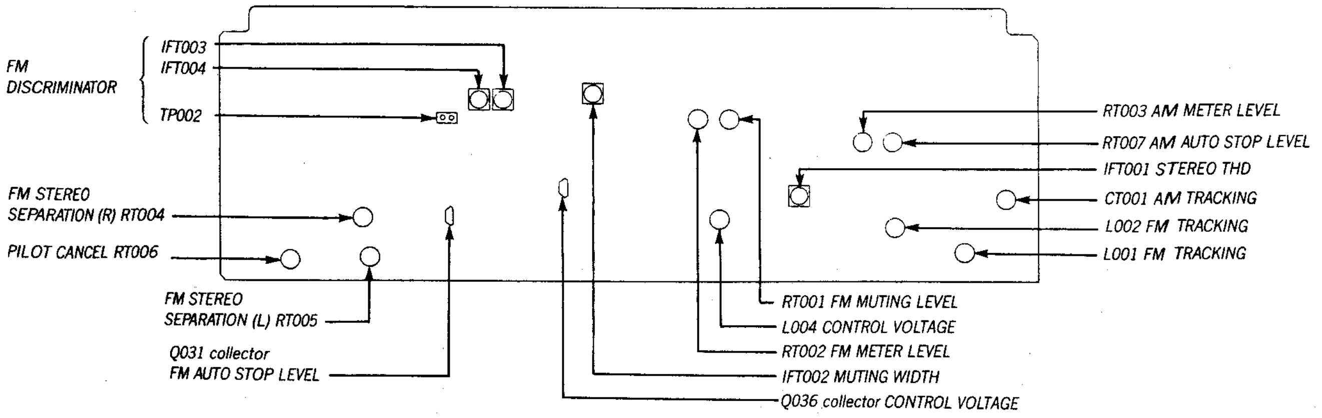
– L-CH –

1. Connect TP501.
2. Adjust RT501 for 7.5 mV reading on the VTVM.

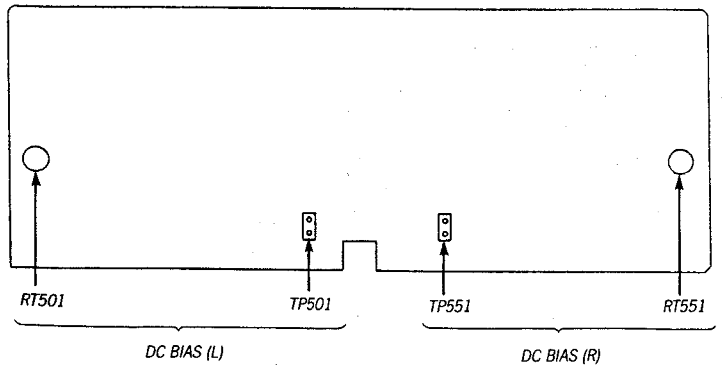
– R-CH –

1. Connect TP551.
2. Adjust RT551 for 7.5 mV reading on the VTVM.

TUNER BOARD (COMPONENT SIDE)

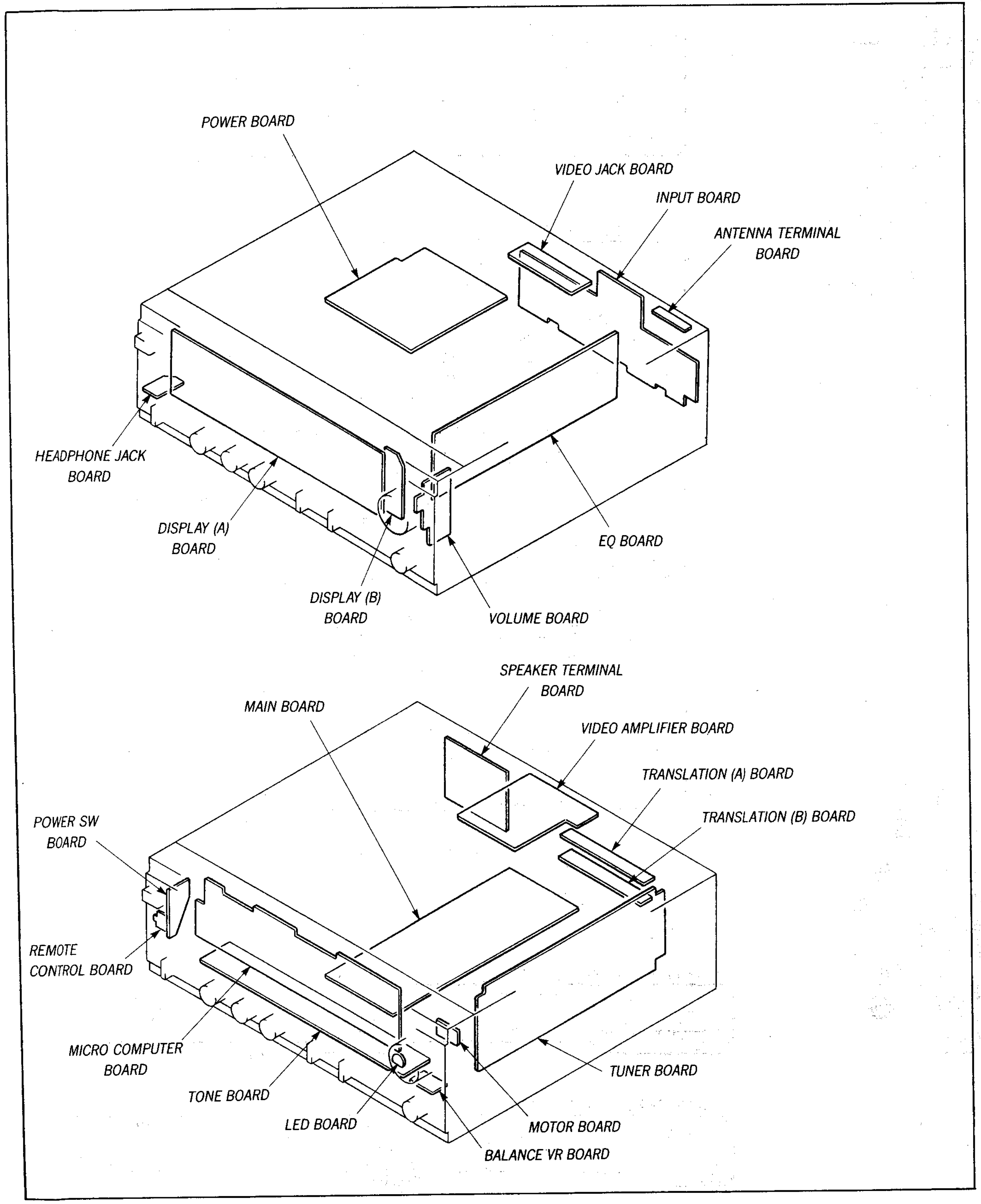

FM DISCRIMINATOR
IFT003
IFT004
TP002
FM STEREO SEPARATION (R) RT004
PILOT CANCEL RT006
FM STEREO SEPARATION (L) RT005
Q031 collector FM AUTO STOP LEVEL
RT003 AM METER LEVEL
RT007 AM AUTO STOP LEVEL
IFT001 STEREO THD
CT001 AM TRACKING
L002 FM TRACKING
L001 FM TRACKING
RT001 FM MUTING LEVEL
L004 CONTROL VOLTAGE
RT002 FM METER LEVEL
IFT002 MUTING WIDTH
Q036 collector CONTROL VOLTAGE

MAIN BOARD (COMPONENT SIDE)

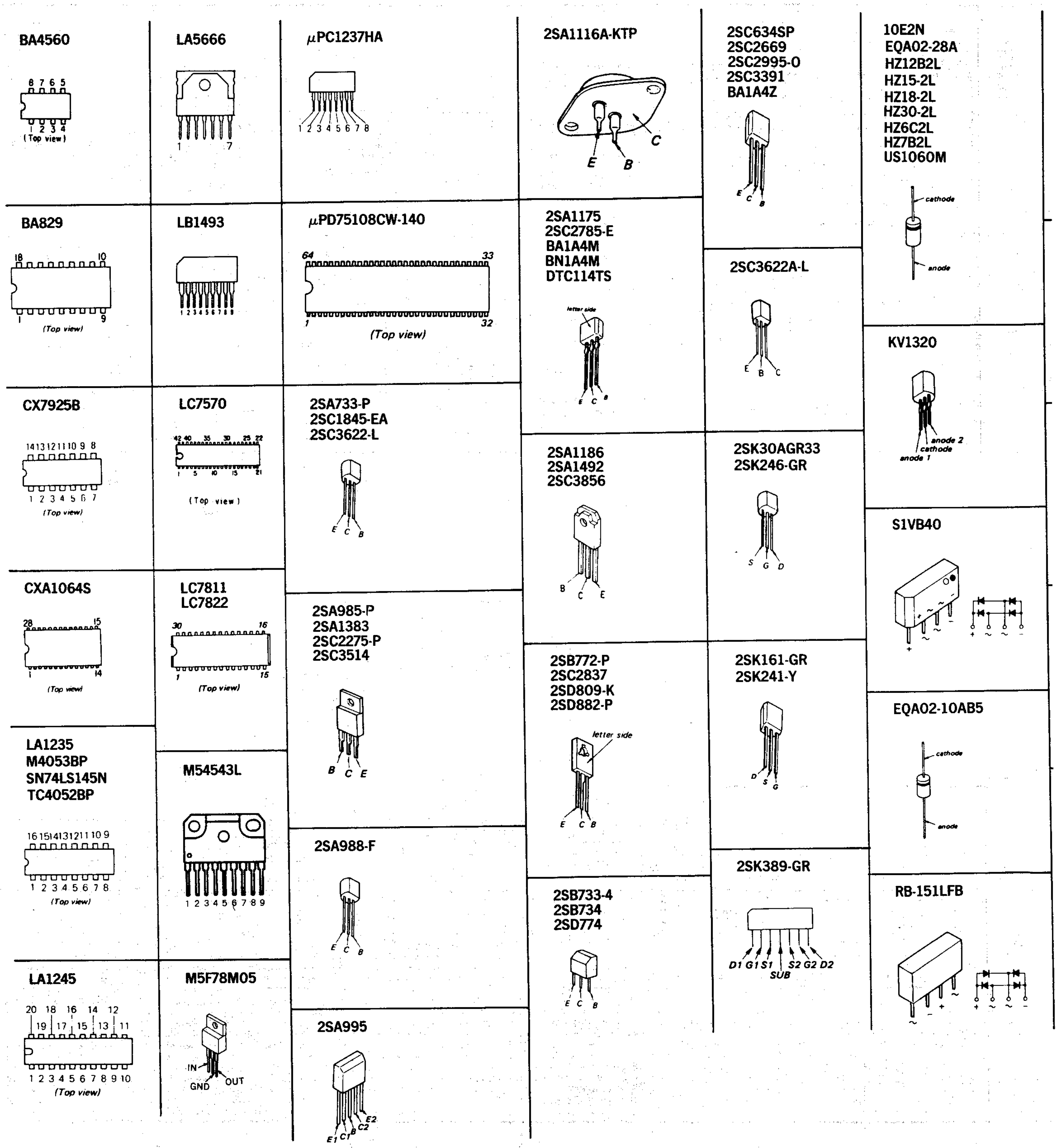

RT501
TP501
TP551
RT551
DC BIAS (L)
DC BIAS (R)

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

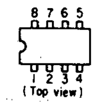

POWER BOARD
VIDEO JACK BOARD
INPUT BOARD
ANTENNA TERMINAL BOARD
HEADPHONE JACK BOARD
DISPLAY (A) BOARD
EQ BOARD
DISPLAY (B) BOARD
VOLUME BOARD
SPEAKER TERMINAL BOARD
MAIN BOARD
VIDEO AMPLIFIER BOARD
TRANSLATION (A) BOARD
TRANSLATION (B) BOARD
POWER SW BOARD
REMOTE CONTROL BOARD
MICRO COMPUTER BOARD
TONE BOARD
TUNER BOARD
LED BOARD
MOTOR BOARD
BALANCE VR BOARD

3-2. SEMICONDUCTOR LEAD LAYOUTS

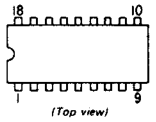

BA4560
8 7 6 5
1 2 3 4
(Top view)
BA829
18 10
1 9
(Top view)
CX7925B
14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)
CXA1064S
28 15
1 14
(Top view)
LA1235
M4053BP
SN74LS145N
TC4052BP
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)
LA1245
20 18 16 14 12
19 17 15 13 11
1 2 3 4 5 6 7 8 9 10
(Top view)
LA5666
1 7
LB1493
1 2 3 4 5 6 7 8 9
LC7570
42 40 35 30 25 22
1 5 10 15 21
(Top view)
LC7811
LC7822
30 16
1 15
(Top view)
M54543L
1 2 3 4 5 6 7 8 9
M5F78M05
IN
GND
OUT
μPC1237HA
1 2 3 4 5 6 7 8
μPD75108CW-140
64 33
1 32
(Top view)
2SA733-P
2SC1845-EA
2SC3622-L
E C B
2SA985-P
2SA1383
2SC2275-P
2SC3514
B C E
2SA988-F
E C B
2SA995
E1 C1 B C2 E2
2SA1116A-KTP
E B C
2SA1175
2SC2785-E
BA1A4M
BN1A4M
DTC114TS
letter side
E C B
2SA1186
2SA1492
2SC3856
B C E
2SB772-P
2SC2837
2SD809-K
2SD882-P
letter side
E C B
2SB733-4
2SB734
2SD774
E C B
2SC634SP
2SC2669
2SC2995-O
2SC3391
BA1A4Z
E C B
2SC3622A-L
E B C
2SK30AGR33
2SK246-GR
S G D
2SK161-GR
2SK241-Y
D S G
2SK389-GR
D1 G1 S1 S2 G2 D2
SUB
10E2N
EQA02-28A
HZ12B2L
HZ15-2L
HZ18-2L
HZ30-2L
HZ6C2L
HZ7B2L
US1060M
cathode
anode
KV1320
anode 2
cathode
anode 1
S1VB40
+ ~ ~ -
EQA02-10AB5
cathode
anode
RB-151LFB
~ - + ~

3-2. SEMICONDUCTOR LEAD LAYOUTS

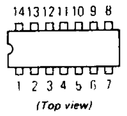
BA4560


8 7 6 5
1 2 3 4
(Top view)

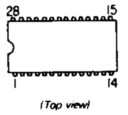
BA829


18
10
1
9
(Top view)

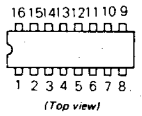
CX7925B


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

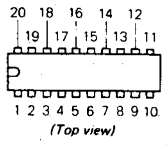
CXA1064S


28
15
1
14
(Top view)

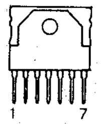
LA1235
M4053BP
SN74LS145N
TC4052BP


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

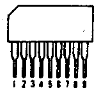
LA1245


20 18 16 14 12
19 17 15 13 11
1 2 3 4 5 6 7 8 9 10
(Top view)

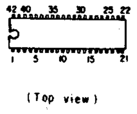
LA5666



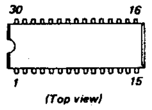
LB1493



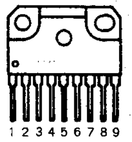
LC7570


42 40 35 30 25 22
1 5 10 15 21
(Top view)

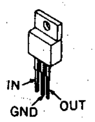
LC7811
LC7822


30
16
1
15
(Top view)

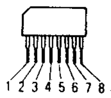
M54543L



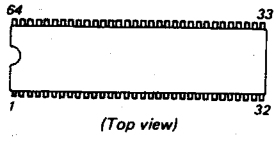
M5F78M05



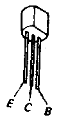
μPC1237HA



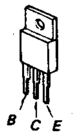
μPD75108CW-140


64
33
1
32
(Top view)

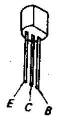
2SA733-P
2SC1845-EA
2SC3622-L



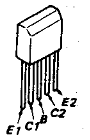
2SA985-P
2SA1383
2SC2275-P
2SC3514



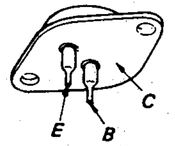
2SA988-F



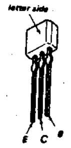
2SA995



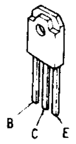
2SA1116A-KTP



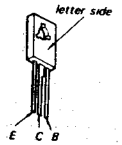
2SA1175
2SC2785-E
BA1A4M
BN1A4M
DTC114TS


letter side
E C B

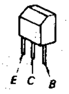
2SA1186
2SA1492
2SC3856



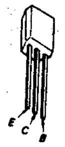
2SB772-P
2SC2837
2SD809-K
2SD882-P


letter side
E C B

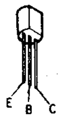
2SB733-4
2SB734
2SD774



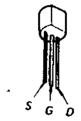
2SC634SP
2SC2669
2SC2995-O
2SC3391
BA1A4Z



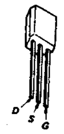
2SC3622A-L



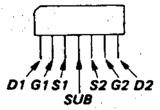
2SK30AGR33
2SK246-GR



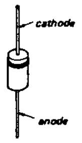
2SK161-GR
2SK241-Y



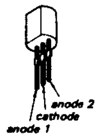
2SK389-GR


D1 G1 S1 S2 G2 D2
SUB

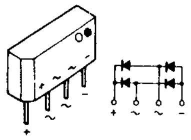
10E2N
EQA02-28A
HZ12B2L
HZ15-2L
HZ18-2L
HZ30-2L
HZ6C2L
HZ7B2L
US1060M


cathode
anode

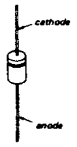
KV1320


anode 2
cathode
anode 1

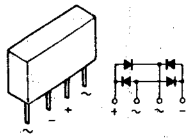
S1VB40



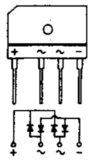
EQA02-10AB5


cathode
anode

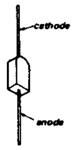
RB-151LFB



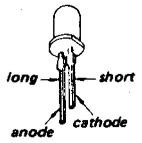
RBV-402-01
RBV-602-01



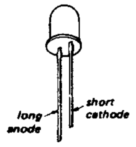
SV-03


cathode
anode

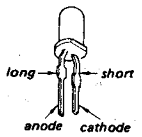
SEL1810A


long
short
anode
cathode

SEL2510C


long
anode
short
cathode

SEL2810A-C


long
short
anode
cathode

3-3. PRINTED WIRING BOARD —TUNER/INPUT/V AMP SECTION—

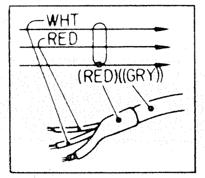
- Refer to page 10 for Semiconductor Lead Layouts

- **Semiconductor Location**

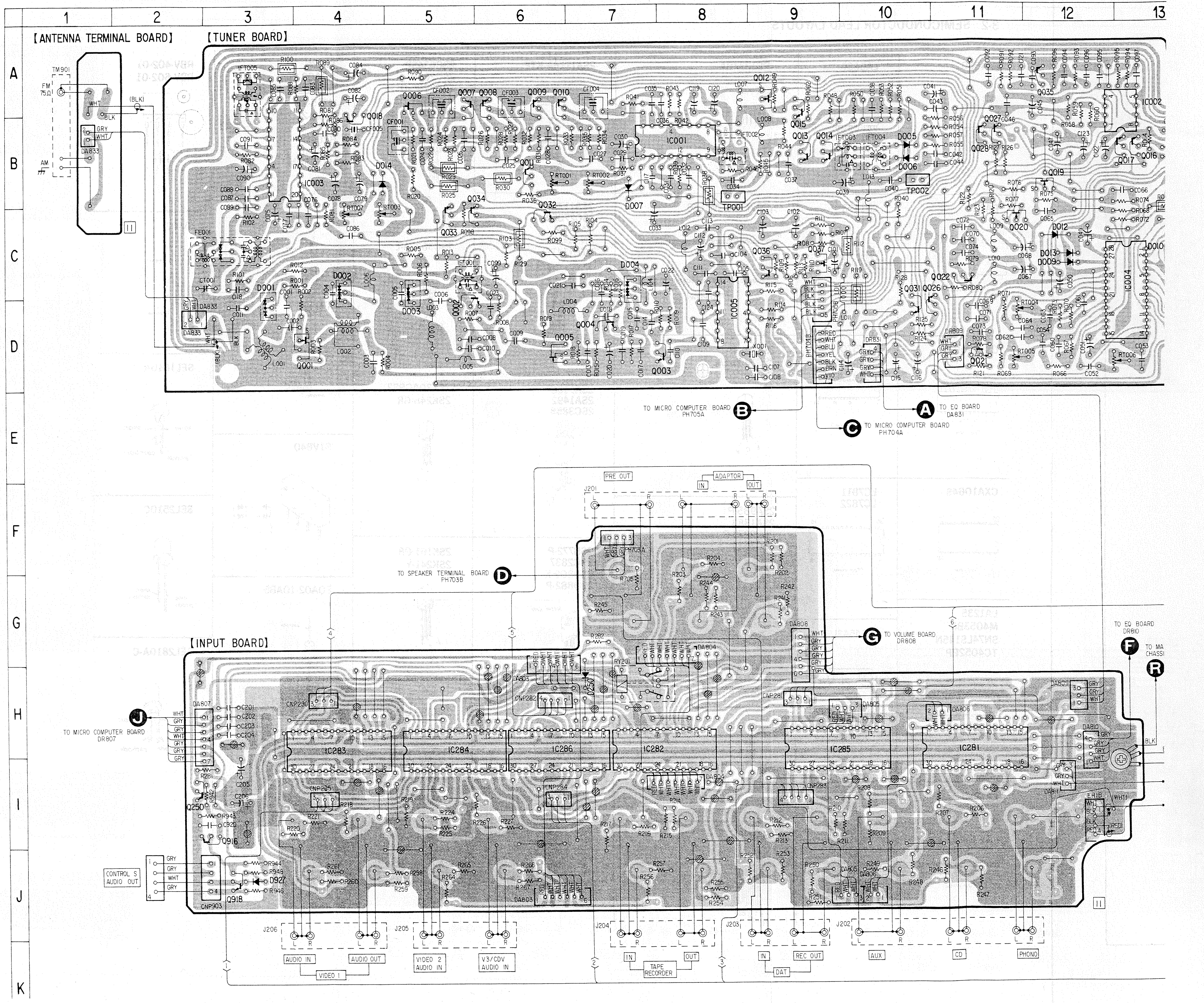
Ref. No.	Location	Ref. No.	Location
D001	C-3	Q013	B-9
D002	C-4	Q014	B-9
D003	D-5	Q015	B-9
D004	C-7	Q016	B-13
D005	B-10	Q017	B-12
D006	B-10	Q018	A-4
D007	B-7	Q019	B-12
D009	C-12	Q020	C-11
D010	C-13	Q021	D-11
D012	C-12	Q022	C-10
D013	C-12	Q026	C-10
D014	B-4	Q027	B-11
D250	H-6	Q028	B-11
D927	J-3	Q031	C-10
		Q032	C-6
IC001	B-7	Q033	C-5
IC002	A-13	Q034	B-5
IC003	B-3	Q035	A-12
IC004	C-12	Q036	C-8
IC005	D-8	Q037	C-10
IC281	H-11	Q250	I-2
IC282	H-7	Q701	D-17
IC283	H-4	Q702	E-17
IC284	H-5	Q703	E-17
IC285	H-9	Q704	E-17
IC286	H-6	Q705	E-17
IC701	D-15	Q706	D-17
IC702	F-15	Q731	F-16
IC703	E-18	Q732	E-16
		Q733	F-16
Q001	D-3	Q734	F-16
Q002	D-5	Q735	E-16
Q003	D-7	Q736	F-17
Q004	D-7	Q761	D-16
Q005	D-6	Q762	E-16
Q006	A-5	Q763	E-16
Q007	A-5	Q764	D-16
Q008	A-5	Q765	E-16
Q009	A-6	Q766	F-17
Q010	A-6	Q916	I-2
Q011	B-6	Q918	J-3
Q012	A-8		

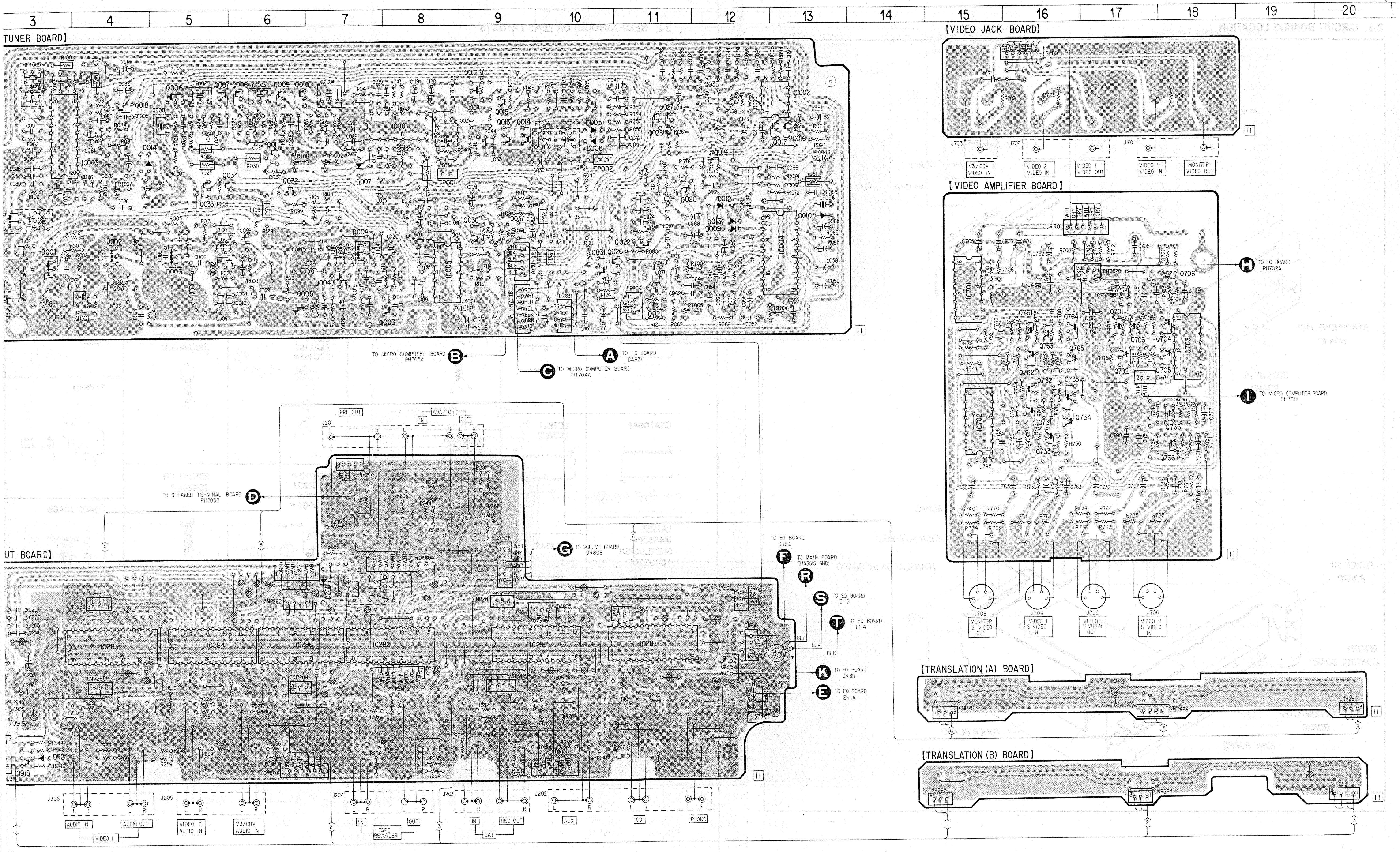
Note on Mounting Diagram:

- Color code or sleeving over the end of the jacket.

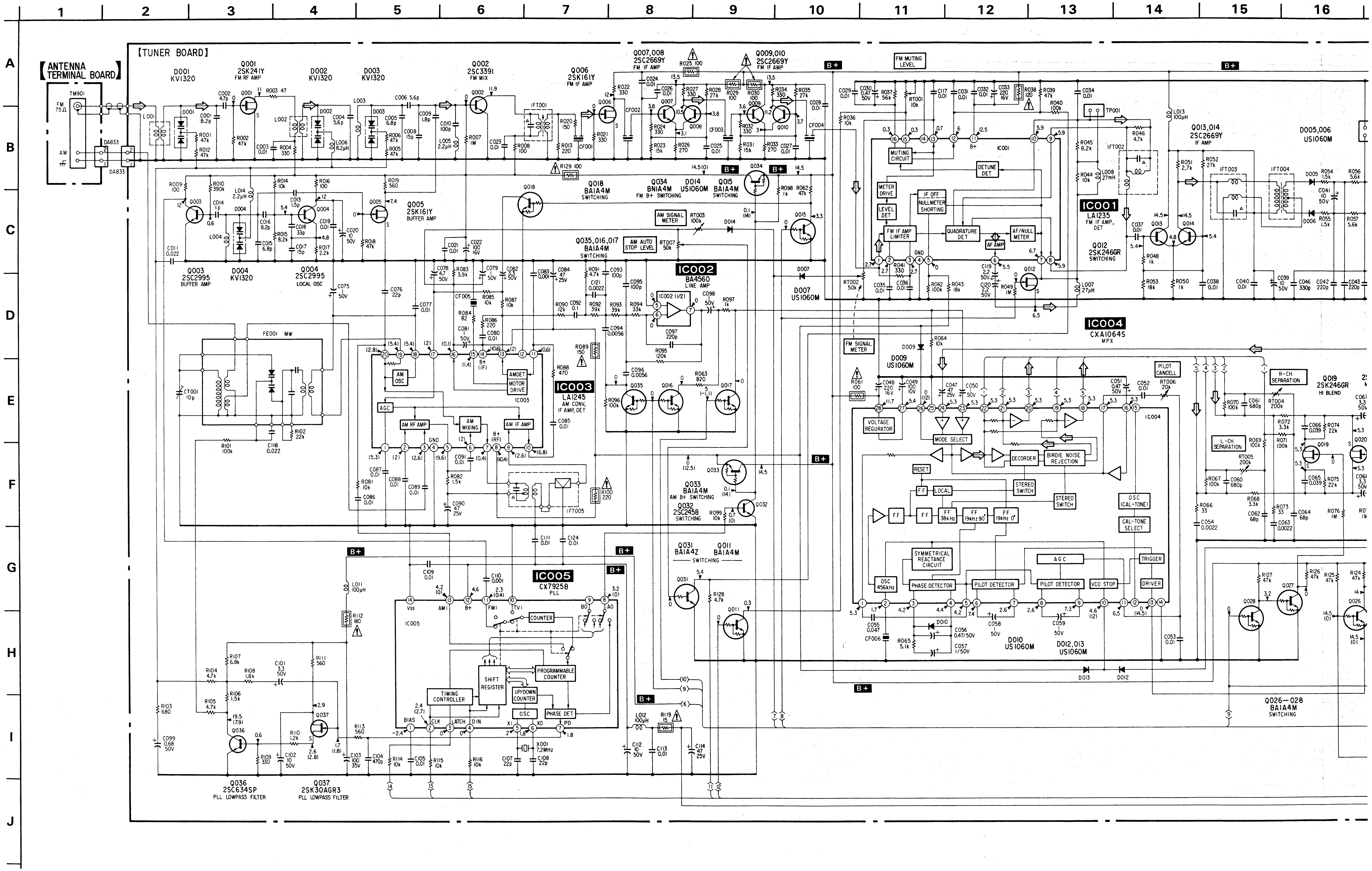

WHT
RED
(RED)(GRY)

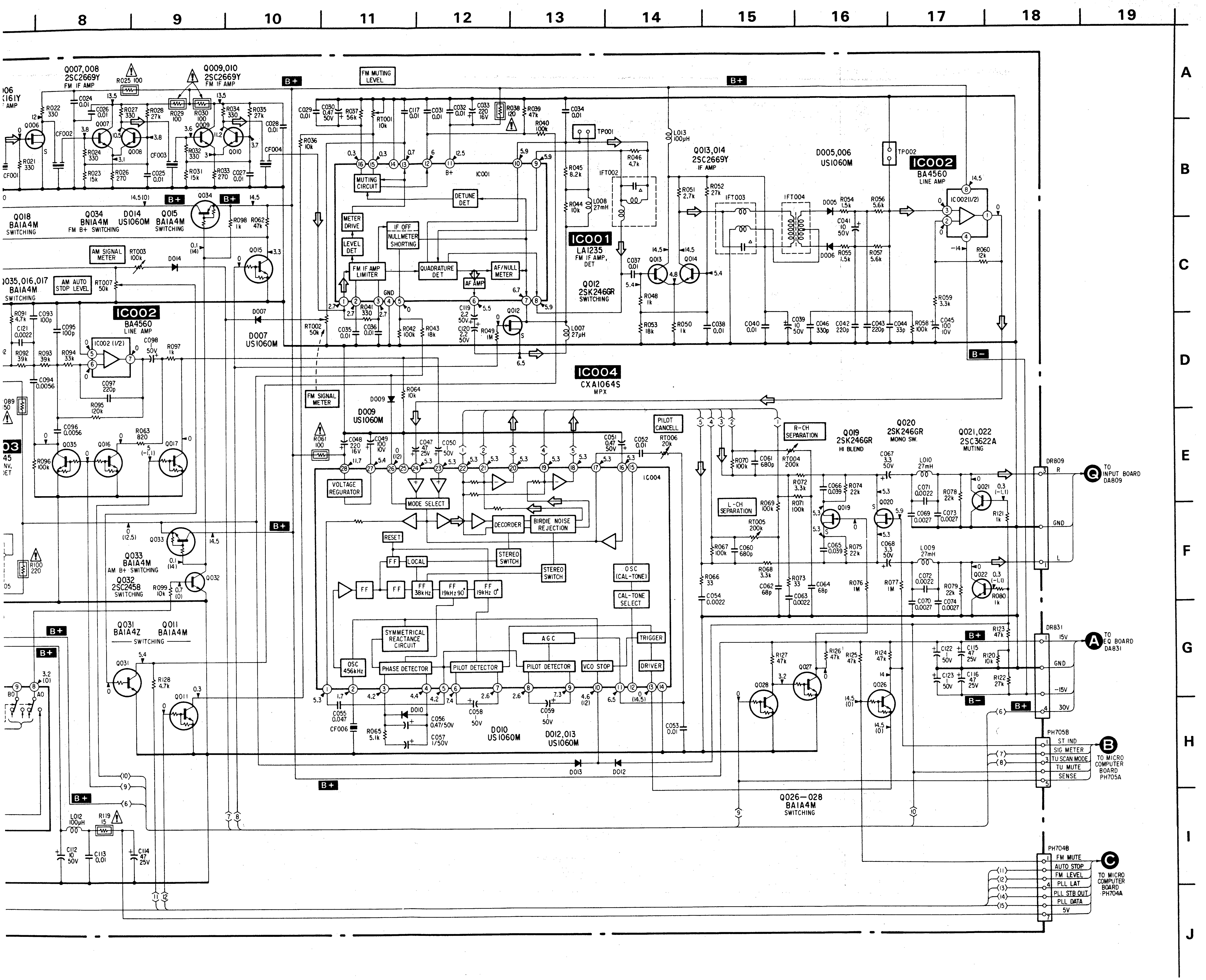
- ○—— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
J
K
[ANTENNA TERMINAL BOARD]
[TUNER BOARD]
TM901
FM 75Ω
AM
WHT
BLK
(BLK)
GRY
DA833
IC001
IC003
IC004
IC005
TP001
TP002
TO MICRO COMPUTER BOARD PH705A
TO MICRO COMPUTER BOARD PH704A
TO EQ BOARD DA831
PRE OUT
ADAPTOR
IN
OUT
J201
TO SPEAKER TERMINAL BOARD PH703B
TO VOLUME BOARD DR808
TO EQ BOARD DR810
[INPUT BOARD]
TO MICRO COMPUTER BOARD DR807
IC283
IC284
IC286
IC282
IC285
IC281
CONTROL S AUDIO OUT
CNP903
J206
J205
J204
J203
J202
AUDIO IN
AUDIO OUT
VIDEO 1
VIDEO 2 AUDIO IN
V3/CDV AUDIO IN
IN
OUT
TAPE RECORDER
IN
REC OUT
DAT
AUX
CD
PHONO


3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
TUNER BOARD]
IC001
IC002
IC003
IC004
IC005
TP001
TP002
TO MICRO COMPUTER BOARD PH705A
B
TO EQ BOARD DA831
A
TO MICRO COMPUTER BOARD PH704A
C
[VIDEO JACK BOARD]
DA801
J703
J702
J701
V3/CDV VIDEO IN
VIDEO 2 VIDEO IN
VIDEO 1 VIDEO OUT
VIDEO 1 VIDEO IN
MONITOR VIDEO OUT
[VIDEO AMPLIFIER BOARD]
DR801
IC701
IC702
IC703
TO EQ BOARD PH702A
H
TO MICRO COMPUTER BOARD PH701A
I
J708
MONITOR S VIDEO OUT
J704
VIDEO 1 S VIDEO IN
J705
VIDEO 1 S VIDEO OUT
J706
VIDEO 2 S VIDEO IN
PRE OUT
ADAPTOR
IN
OUT
J201
TO SPEAKER TERMINAL BOARD PH703B
D
TO VOLUME BOARD DR808
G
TO EQ BOARD DR810
F
TO MAIN BOARD CHASSIS GND
R
TO EQ BOARD EH3
S
TO EQ BOARD EH4
T
TO EQ BOARD DR811
K
TO EQ BOARD EH1A
E
UT BOARD]
IC283
IC284
IC286
IC282
IC285
IC281
J206
AUDIO IN
AUDIO OUT
VIDEO 1
J205
VIDEO 2 AUDIO IN
V3/CDV AUDIO IN
J204
IN
OUT
TAPE RECORDER
J203
IN
REC OUT
DAT
J202
AUX
CD
PHONO
[TRANSLATION (A) BOARD]
CNP281
CNP282
CNP283
[TRANSLATION (B) BOARD]
CNP285
CNP284
CNP283

3-4. SCHEMATIC DIAGRAM —TUNER SECTION—


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
【ANTENNA TERMINAL BOARD】
TM901
FM 75Ω
AM
DA833
【TUNER BOARD】
D001 KV1320
Q001 2SK241Y FM RF AMP
D002 KV1320
D003 KV1320
Q002 2SC3391 FM MIX
Q006 2SK161Y FM IF AMP
Q007,008 2SC2669Y FM IF AMP
Q009,010 2SC2669Y FM IF AMP
FM MUTING LEVEL
B+
IFT001
CF001
CF002
CF003
CF004
Q003 2SC2995 BUFFER AMP
D004 KV1320
Q004 2SC2995 LOCAL OSC
Q005 2SK161Y BUFFER AMP
Q018 BA1A4M SWITCHING
Q034 BN1A4M FM B+ SWITCHING
D014 US1060M
Q015 BA1A4M SWITCHING
AM SIGNAL METER
AM AUTO STOP LEVEL
Q035,016,017 BA1A4M SWITCHING
IC002 BA4560 LINE AMP
D007 US1060M
IC001 LA1235 FM IF AMP, DET
MUTING CIRCUIT
METER DRIVE
LEVEL DET
IF OFF NULLMETER SHORTING
FM IF AMP LIMITER
QUADRATURE DET
AF/NULL METER
AF AMP
DETUNE DET
Q012 2SK246GR SWITCHING
Q013,014 2SC2669Y IF AMP
IFT002
IFT003
IFT004
D005,006 US1060M
FE001 MW
CT001 10p
IC003 LA1245 AM CONV, IF AMP, DET
AM OSC
AMDET
MOTOR DRIVE
AGC
AM RF AMP
AM MIXING
AM IF AMP
CF005
IFT005
Q033 BA1A4M AM B+ SWITCHING
Q032 2SC2458 SWITCHING
FM SIGNAL METER
D009 US1060M
IC004 CXA1064S MPX
PILOT CANCELL
R-CH SEPARATION
Q019 2SK246GR HI BLEND
VOLTAGE REGULATOR
MODE SELECT
DECORDER
BIRDIE NOISE REJECTION
RESET
FF
LOCAL
STEREO SWITCH
38kHz
19kHz 90°
19kHz 0°
OSC (CAL-TONE)
CAL-TONE SELECT
SYMMETRICAL REACTANCE CIRCUIT
OSC 456kHz
PHASE DETECTOR
PILOT DETECTOR
AGC
VCO STOP
TRIGGER
DRIVER
L-CH SEPARATION
D010 US1060M
D012,013 US1060M
IC005 CX7925B PLL
COUNTER
SHIFT REGISTER
PROGRAMMABLE COUNTER
TIMING CONTROLLER
UP/DOWN COUNTER
OSC
PHASE DET
X001 7.2MHz
Q031 BA1A4Z
Q011 BA1A4M
SWITCHING
Q036 2SC634SP PLL LOWPASS FILTER
Q037 2SK30AGR3 PLL LOWPASS FILTER
Q026—028 BA1A4M SWITCHING


IC001
LA1235
FM IF AMP, DET
IC002
BA4560
LINE AMP
IC004
CXA1064S
MPX
Q013,014
2SC2669Y
IF AMP
Q012
2SK246GR
SWITCHING
D005,006
US1060M
Q019
2SK246GR
HI BLEND
Q020
2SK246GR
MONO SW.
Q021,022
2SC3622A
MUTING
Q026—028
BA1A4M
SWITCHING
Q007,008
2SC2669Y
FM IF AMP
Q009,010
2SC2669Y
FM IF AMP
Q018
BA1A4M
SWITCHING
Q034
BN1A4M
FM B+ SWITCHING
D014
US1060M
Q015
BA1A4M
SWITCHING
Q033
BA1A4M
AM B+ SWITCHING
Q032
2SC2458
SWITCHING
Q031
BA1A4Z
Q011
BA1A4M
SWITCHING
D007
US1060M
D009
US1060M
D010
US1060M
D012,013
US1060M
FM MUTING LEVEL
AM SIGNAL METER
AM AUTO STOP LEVEL
FM SIGNAL METER
PILOT CANCEL
R-CH SEPARATION
L-CH SEPARATION
MUTING CIRCUIT
METER DRIVE
LEVEL DET
IF OFF NULLMETER SHORTING
DETUNE DET
FM IF AMP LIMITER
QUADRATURE DET
AF/NULL METER
AF AMP
VOLTAGE REGULATOR
MODE SELECT
DECORDER
BIRDIE NOISE REJECTION
RESET
LOCAL
STEREO SWITCH
OSC (CAL-TONE)
CAL-TONE SELECT
FF
38kHz
19kHz 90°
19kHz 0°
SYMMETRICAL REACTANCE CIRCUIT
AGC
TRIGGER
OSC 456kHz
PHASE DETECTOR
PILOT DETECTOR
VCO STOP
DRIVER
B+
B−
TP001
TP002
IFT002
IFT003
IFT004
DR809
R
GND
L
TO INPUT BOARD DA809
DR831
15V
GND
−15V
30V
TO EQ BOARD DA831
PH705B
ST IND
SIG METER
TU SCAN MODE
TU MUTE
SENSE
TO MICRO COMPUTER BOARD PH705A
PH704B
FM MUTE
AUTO STOP
FM LEVEL
PLL LAT
PLL STB OUT
PLL DATA
5V
TO MICRO COMPUTER BOARD PH704A
8
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15
16
17
18
19
A
B
C
D
E
F
G
H
I
J

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

3-5. PRINTED WIRING BOARD —TUNER/INPUT/V AMP SECTION—

- Refer to page 10 for Semiconductor Lead Layouts
- Semiconductor Location

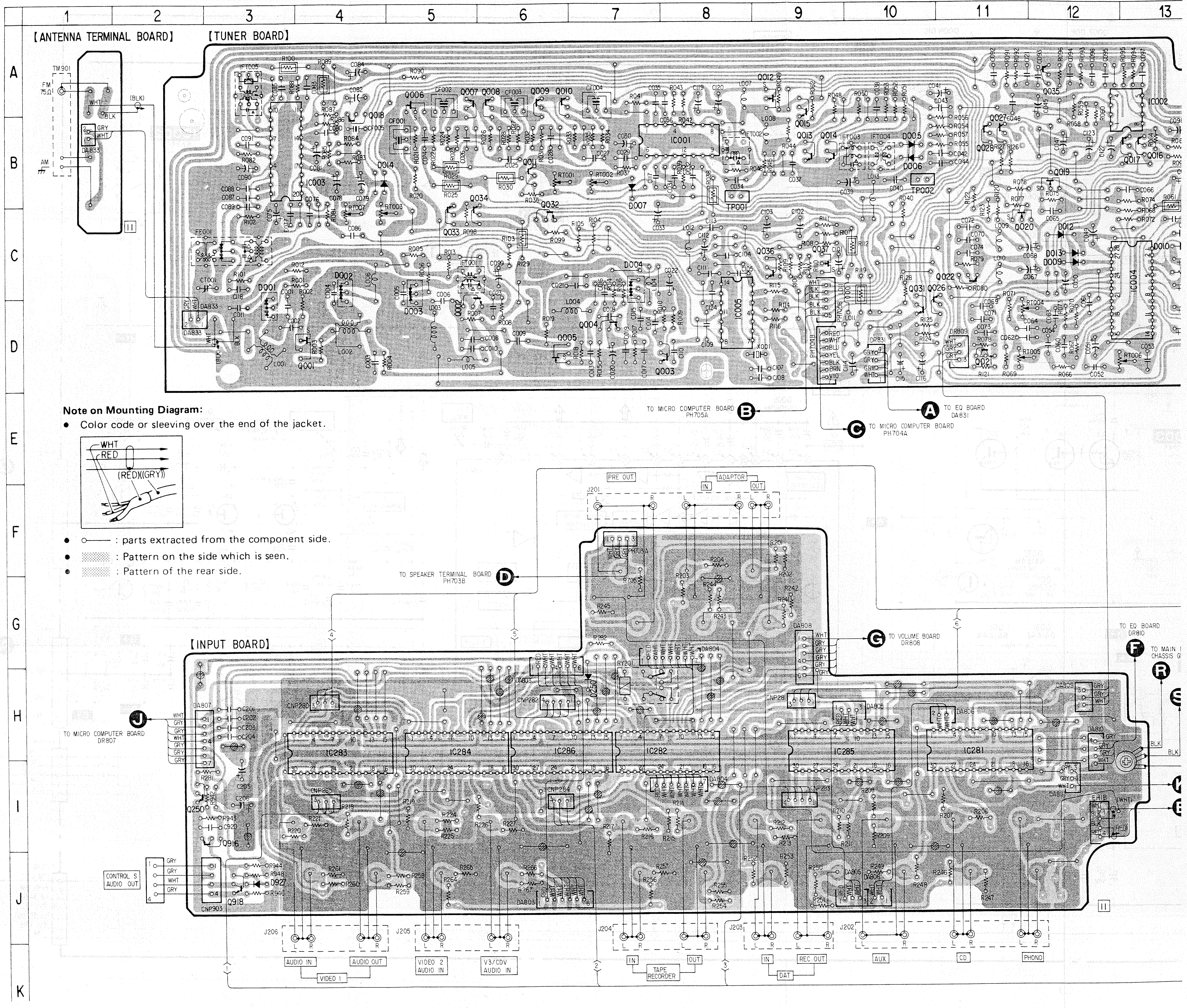
Ref. No.	Location	Ref. No.	Location
D001	C-3	Q013	B-9
D002	C-4	Q014	B-9
D003	D-5	Q015	B-9
D004	C-7	Q016	B-13
D005	B-10	Q017	B-12
D006	B-10	Q018	A-4
D007	B-7	Q019	B-12
D009	C-12	Q020	C-11
D010	C-13	Q021	D-11
D012	C-12	Q022	C-10
D013	C-12	Q026	C-10
D014	B-4	Q027	B-11
D250	H-6	Q028	B-11
D927	J-3	Q031	C-10
		Q032	C-6
IC001	B-7	Q033	C-5
IC002	A-13	Q034	B-5
IC003	B-3	Q035	A-12
IC004	C-12	Q036	C-8
IC005	D-8	Q037	C-10
IC281	H-11	Q250	I-2
IC282	H-7	Q701	D-17
IC283	H-4	Q702	E-17
IC284	H-5	Q703	E-17
IC285	H-9	Q704	E-17
IC286	H-6	Q705	E-17
IC701	D-15	Q706	D-17
IC702	F-15	Q731	F-16
IC703	E-18	Q732	E-16
		Q733	F-16
Q001	D-3	Q734	F-16
Q002	D-5	Q735	E-16
Q003	D-7	Q736	F-17
Q004	D-7	Q761	D-16
Q005	D-6	Q762	E-16
Q006	A-5	Q763	E-16
Q007	A-5	Q764	D-16
Q008	A-5	Q765	E-16
Q009	A-6	Q766	F-17
Q010	A-6	Q916	I-2
Q011	B-6	Q918	J-3
Q012	A-8		

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

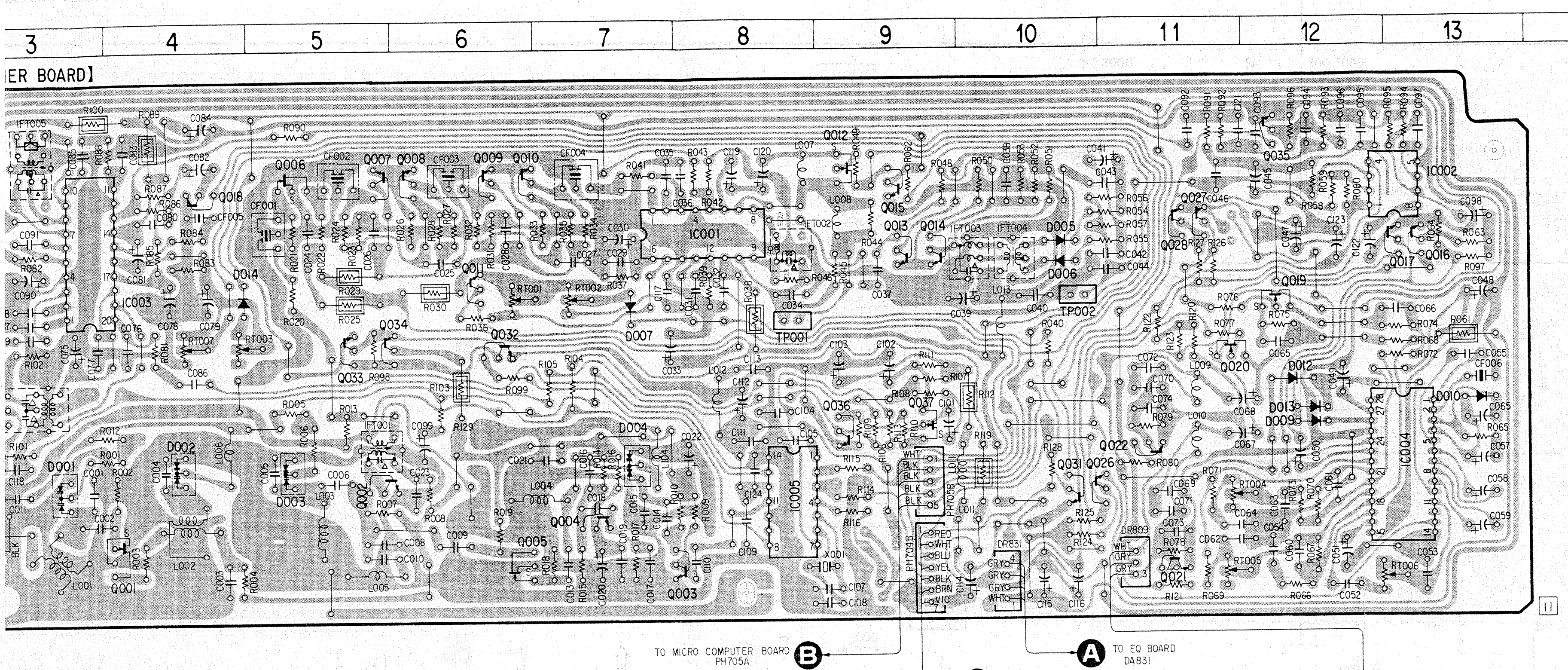
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  (   ): AM
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM


[ANTENNA TERMINAL BOARD]
[TUNER BOARD]
[INPUT BOARD]
TO MICRO COMPUTER BOARD PH705A
TO EQ BOARD DA831
TO MICRO COMPUTER BOARD PH704A
TO SPEAKER TERMINAL BOARD PH703B
TO VOLUME BOARD DR806
TO EQ BOARD DR810
TO MICRO COMPUTER BOARD DR807
CONTROL S AUDIO OUT
PRE OUT
ADAPTOR
IN
OUT
AUDIO IN
AUDIO OUT
VIDEO 1
VIDEO 2 AUDIO IN
V3/CDV AUDIO IN
TAPE RECORDER
REC OUT
DAT
AUX
CD
PHONO
IC001
IC002
IC003
IC004
IC005
IC281
IC282
IC283
IC284
IC285
IC286

Note on Mounting Diagram:

- Color code or sleeving over the end of the jacket.

- ○—— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.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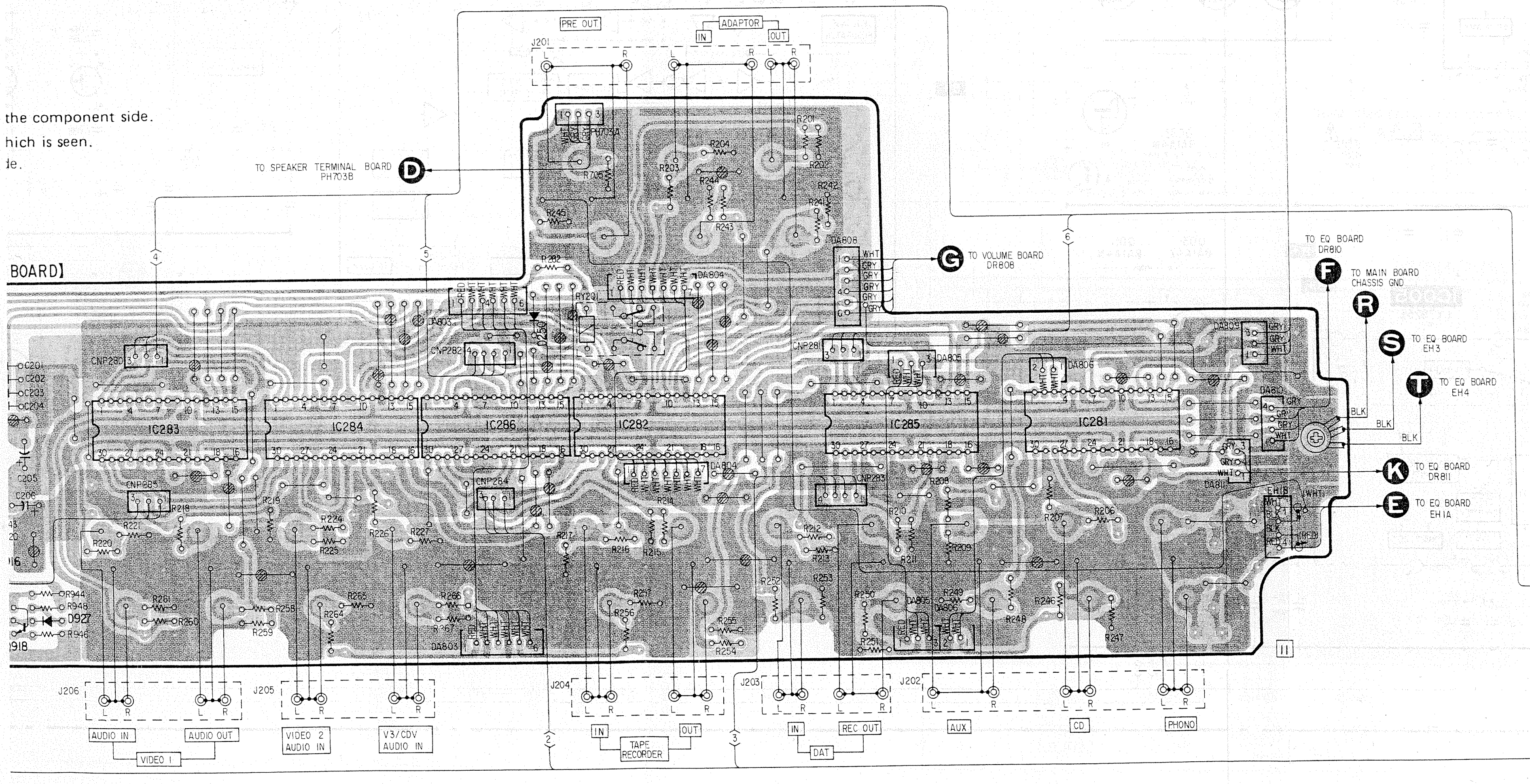
14
IER BOARD】
IC001
IC002
IC003
IC004
IC005
TP001
TP002
TO MICRO COMPUTER BOARD PH705A
TO EQ BOARD DA831
TO MICRO COMPUTER BOARD PH704A
B
A
C

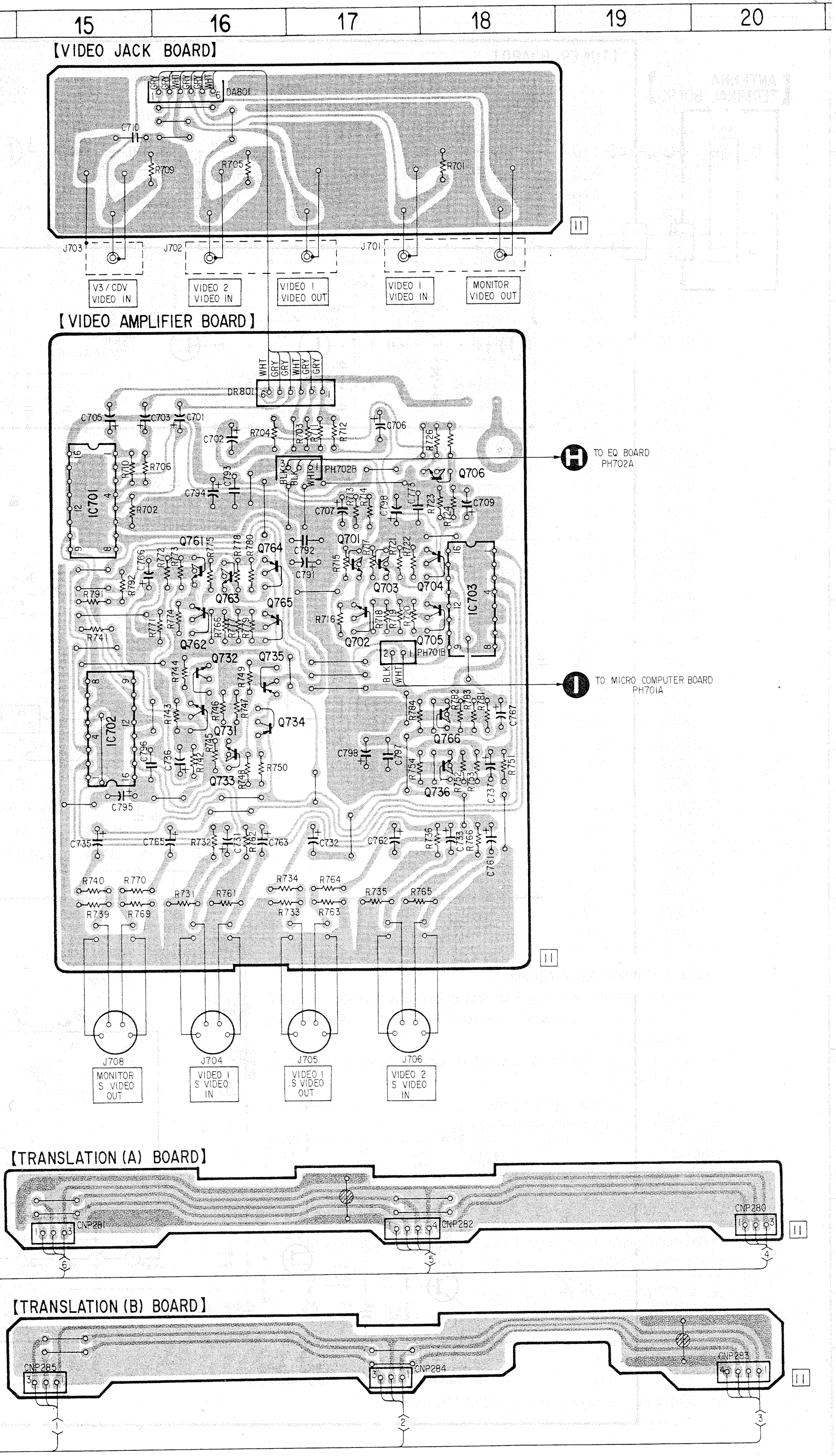
e end of the jacket.

the component side.

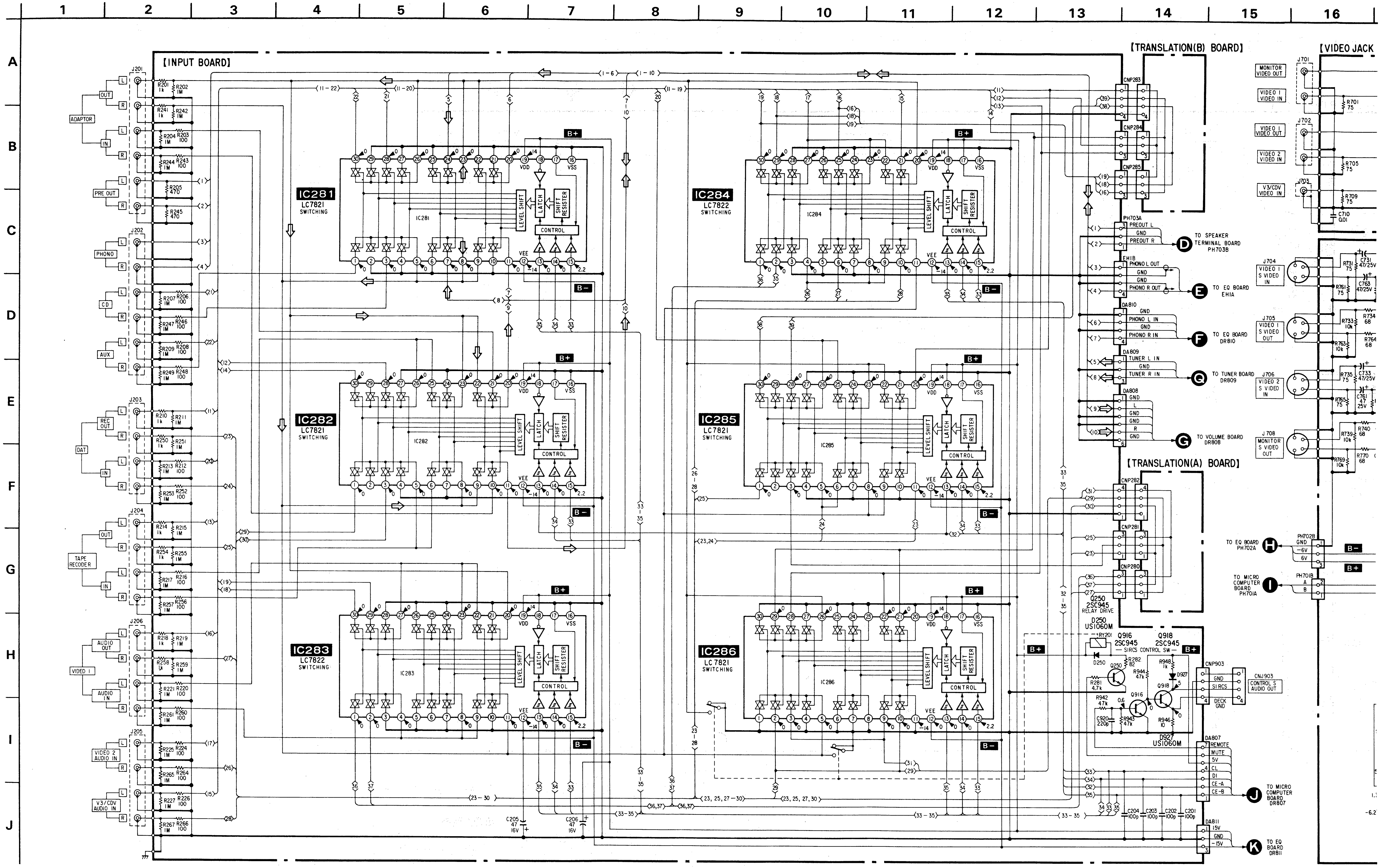
hich is seen.

de.


PRE OUT
ADAPTOR
IN
OUT
J201
TO SPEAKER TERMINAL BOARD PH703B
D
TO VOLUME BOARD DR808
G
TO EQ BOARD DR810
F
TO MAIN BOARD CHASSIS GND
R
TO EQ BOARD EH3
S
TO EQ BOARD EH4
T
TO EQ BOARD DR811
K
TO EQ BOARD EH1A
E
BOARD】
IC283
IC284
IC286
IC282
IC285
IC281
J206
J205
J204
J203
J202
AUDIO IN
AUDIO OUT
VIDEO 1
VIDEO 2 AUDIO IN
V3/CDV AUDIO IN
IN
OUT
TAPE RECORDER
IN
REC OUT
DAT
AUX
CD
PHONO


15
16
17
18
19
20
【VIDEO JACK BOARD】
J703
J702
J701
V3/CDV VIDEO IN
VIDEO 2 VIDEO IN
VIDEO 1 VIDEO OUT
VIDEO 1 VIDEO IN
MONITOR VIDEO OUT
【VIDEO AMPLIFIER BOARD】
IC701
IC702
IC703
TO EQ BOARD PH702A
H
TO MICRO COMPUTER BOARD PH701A
I
J708
J704
J705
J706
MONITOR S VIDEO OUT
VIDEO 1 S VIDEO IN
VIDEO 1 S VIDEO OUT
VIDEO 2 S VIDEO IN
【TRANSLATION (A) BOARD】
CNP281
CNP282
CNP280
【TRANSLATION (B) BOARD】
CNP285
CNP284
CNP283

3-6. SCHEMATIC DIAGRAM —INPUT/V AMP SECTION—



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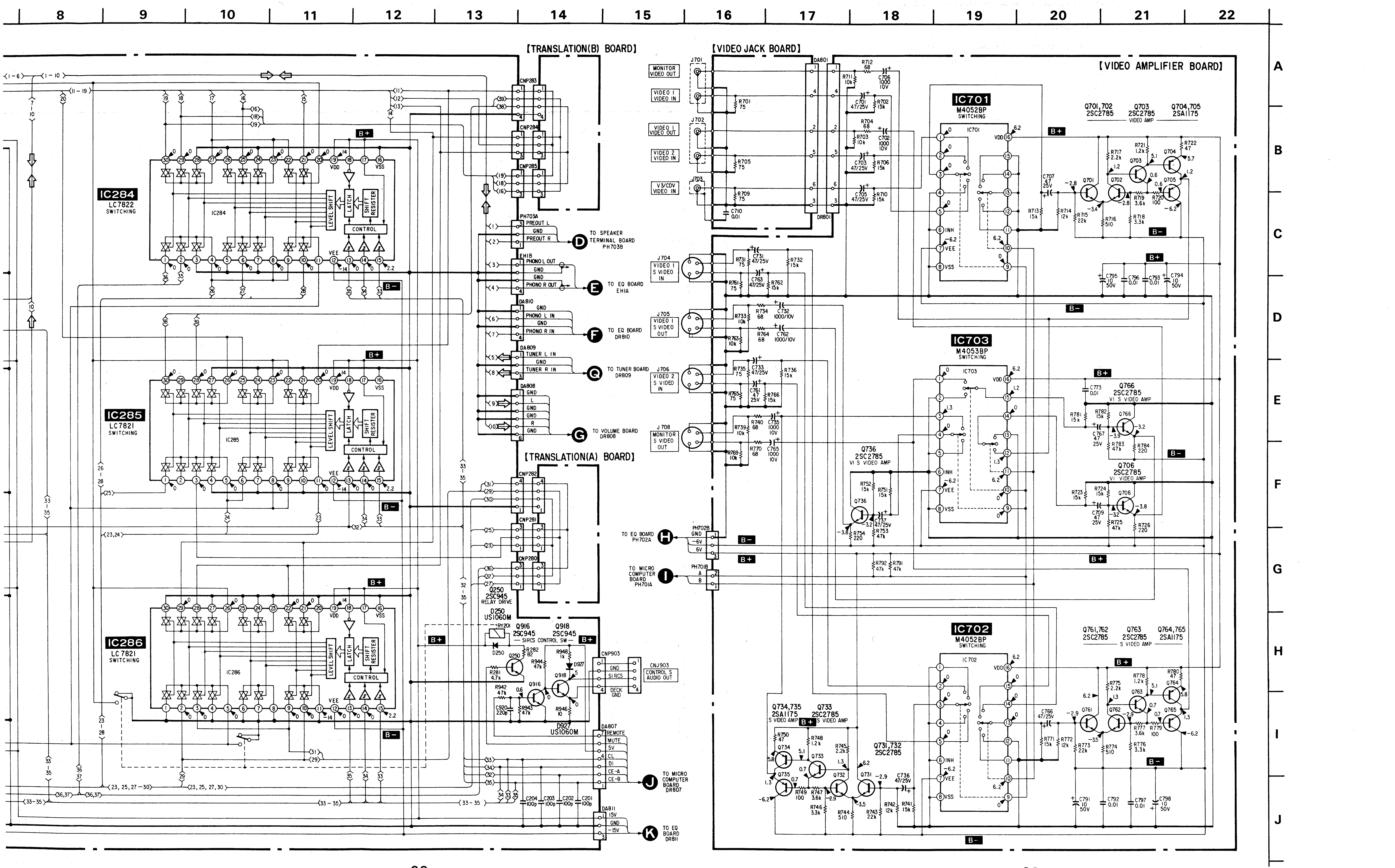
14
15
16
A
B
C
D
E
F
G
H
I
J
[INPUT BOARD]
[TRANSLATION(B) BOARD]
[TRANSLATION(A) BOARD]
[VIDEO JACK
J201
J202
J203
J204
J205
J206
ADAPTOR
OUT
IN
PRE OUT
PHONO
CD
AUX
DAT
REC OUT
TAPE RECODER
VIDEO 1
AUDIO OUT
AUDIO IN
VIDEO 2 AUDIO IN
V3/CDV AUDIO IN
L
R
IC281
LC7821
SWITCHING
IC282
LC7821
SWITCHING
IC283
LC7822
SWITCHING
IC284
LC7822
SWITCHING
IC285
LC7821
SWITCHING
IC286
LC7821
SWITCHING
LEVEL SHIFT
LATCH
SHIFT RESISTER
CONTROL
VDD
VSS
VEE
B+
B-
CNP283
CNP284
CNP285
CNP282
CNP281
CNP280
PH703A
PREOUT L
GND
PREOUT R
TO SPEAKER TERMINAL BOARD PH703B
EH1B
PHONO L OUT
PHONO R OUT
TO EQ BOARD EH1A
DA810
PHONO L IN
PHONO R IN
TO EQ BOARD DR810
DA809
TUNER L IN
TUNER R IN
TO TUNER BOARD DR809
DA808
TO VOLUME BOARD DR808
D
E
F
G
H
I
J
K
TO EQ BOARD PH702A
PH702B
-6V
6V
TO MICRO COMPUTER BOARD PH701A
PH701B
Q250
2SC945
RELAY DRIVE
D250
US1060M
RY201
Q916
2SC945
Q918
2SC945
— SIRCS CONTROL SW —
D927
US1060M
CNP903
CNJ903
CONTROL S AUDIO OUT
SIRCS
DECK GND
DA807
REMOTE
MUTE
5V
CL
DI
CE-A
CE-B
TO MICRO COMPUTER BOARD DR807
DA811
15V
-15V
TO EQ BOARD DR811
C205 47 16V
C206 47 16V
C204 100p
C203 100p
C202 100p
C201 100p
MONITOR VIDEO OUT
VIDEO 1 VIDEO IN
VIDEO 1 VIDEO OUT
VIDEO 2 VIDEO IN
V3/CDV VIDEO IN
J701
J702
J703
J704
J705
J706
J708
VIDEO 1 S VIDEO IN
VIDEO 1 S VIDEO OUT
VIDEO 2 S VIDEO IN
MONITOR S VIDEO OUT
R701 75
R705 75
R709 75
C710 0.01



[TRANSLATION(B) BOARD]
[VIDEO JACK BOARD]
[VIDEO AMPLIFIER BOARD]
[TRANSLATION(A) BOARD]
IC284
LC7822
SWITCHING
IC285
LC7821
SWITCHING
IC286
LC7821
SWITCHING
LEVEL SHIFT
LATCH
SHIFT RESISTER
CONTROL
VDD
VSS
VEE
B+
B-
CNP283
CNP284
CNP285
PH703A
PREOUT L
GND
PREOUT R
TO SPEAKER TERMINAL BOARD PH703B
EH1B
PHONO L OUT
PHONO R OUT
TO EQ BOARD EH1A
DA810
PHONO L IN
PHONO R IN
TO EQ BOARD DR810
DA809
TUNER L IN
TUNER R IN
TO TUNER BOARD DR809
DA808
TO VOLUME BOARD DR808
CNP282
CNP281
CNP280
Q250
2SC945
RELAY DRIVE
D250
US1060M
Q916
2SC945
Q918
2SC945
SIRCS CONTROL SW
RY201
D927
US1060M
CNP903
GND
SIRCS
DECK GND
CNJ903
CONTROL S AUDIO OUT
DA807
REMOTE
MUTE
5V
CL
DI
CE-A
CE-B
TO MICRO COMPUTER BOARD DR807
DA811
15V
GND
-15V
TO EQ BOARD DR811
C204 100p
C203 100p
C202 100p
C201 100p
J701
MONITOR VIDEO OUT
VIDEO 1 VIDEO IN
J702
VIDEO 1 VIDEO OUT
VIDEO 2 VIDEO IN
J703
V3/CDV VIDEO IN
DA801
DR801
C710 0.01
J704
VIDEO 1 S VIDEO IN
J705
VIDEO 1 S VIDEO OUT
J706
VIDEO 2 S VIDEO IN
J708
MONITOR S VIDEO OUT
IC701
M4052BP
SWITCHING
IC703
M4053BP
SWITCHING
IC702
M4052BP
SWITCHING
INH
Q701,702 2SC2785
Q703 2SC2785
VIDEO AMP
Q704,705 2SA1175
Q766
2SC2785
V1 S VIDEO AMP
Q706
2SC2785
V1 VIDEO AMP
Q736
2SC2785
V1 S VIDEO AMP
Q761,762 2SC2785
Q763 2SC2785
Q764,765 2SA1175
S VIDEO AMP
Q734,735 2SA1175 S VIDEO AMP
Q733 2SC2785 S VIDEO AMP
Q731,732 2SC2785
PH702B
-6V
6V
TO EQ BOARD PH702A
PH701B
TO MICRO COMPUTER BOARD PH701A

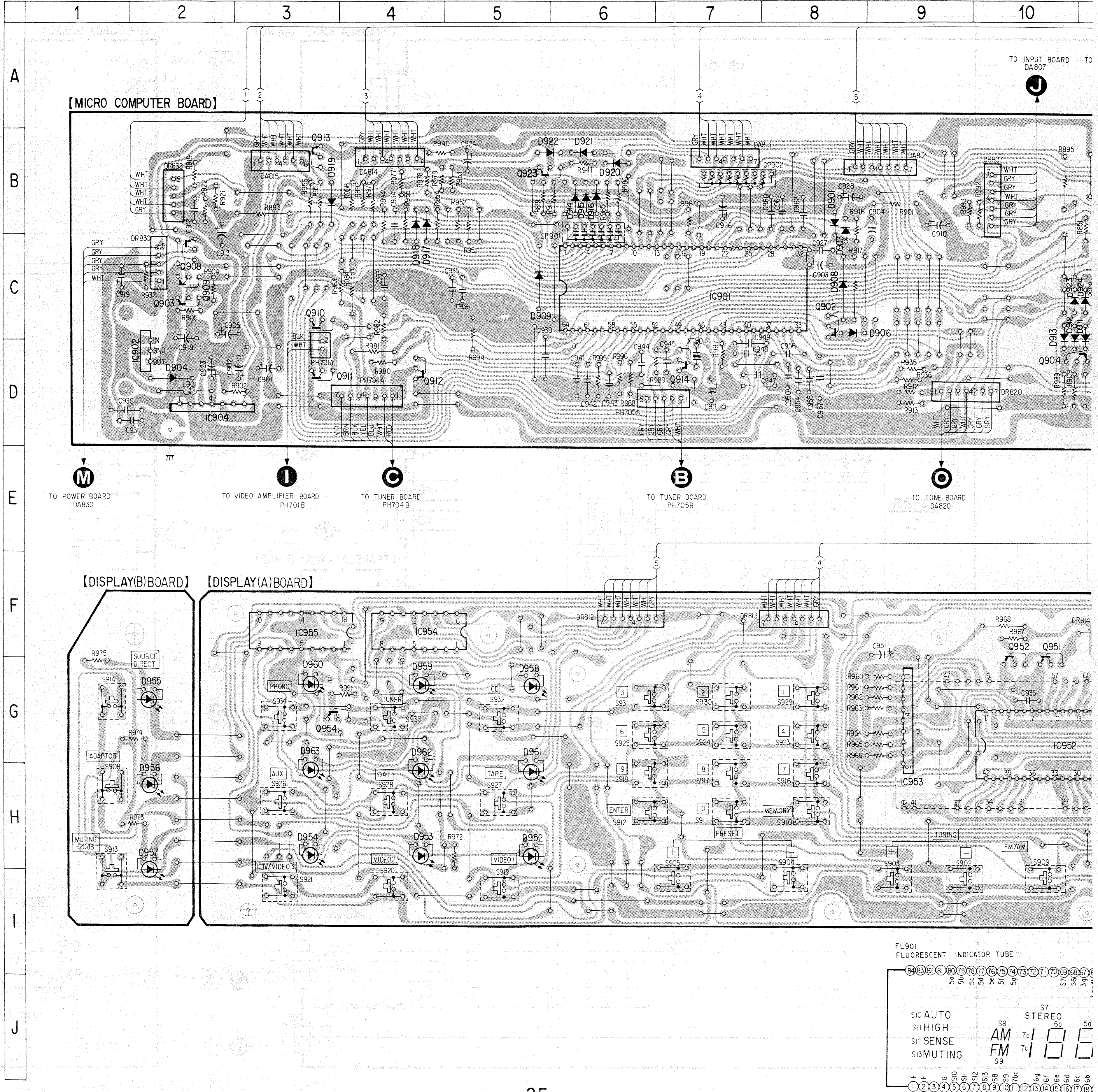
3-7. PRINTED WIRING BOARD —MICRO COMPUTER/DISPLAY SECTION—

- Refer to page 10 for Semiconductor Lead Layouts

- Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D901	B-8	D961	G-5
D902	C-11	D962	G-4
D903	B-8	D963	G-3
D904	D-2		
D905	C-11	IC901	C-7
D906	C-8	IC902	D-2
D907	D-12	IC904	D-2
D908	C-8	IC910	F-15
D909	C-5	IC951	G-12
D910	D-11	IC952	G-10
D911	C-11	IC953	G-9
D912	C-10	IC954	F-4
D913	C-10	IC955	F-3
D914	B-6		
D915	B-6	Q901	C-12
D916	B-6	Q902	C-8
D917	C-4	Q903	C-2
D918	C-4	Q904	D-10
D919	B-3	Q905	D-11
D920	B-6	Q906	D-11
D921	B-6	Q907	C-11
D922	B-5	Q908	C-2
D923	C-10	Q909	C-2
D924	C-11	Q910	C-3
D925	B-14	Q911	D-3
D929	C-11	Q912	D-4
D931	C-11	Q913	B-3
D951	G-13	Q914	D-7
D952	H-5	Q915	C-12
D953	H-4	Q921	B-12
D954	H-3	Q922	B-11
D955	G-2	Q923	B-5
D956	H-2	Q951	F-10
D957	H-2	Q952	F-10
D958	G-5	Q953	H-13
D959	G-4	Q954	G-3
D960	G-3		

- ○—— : parts extracted from the component side.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A
B
C
D
E
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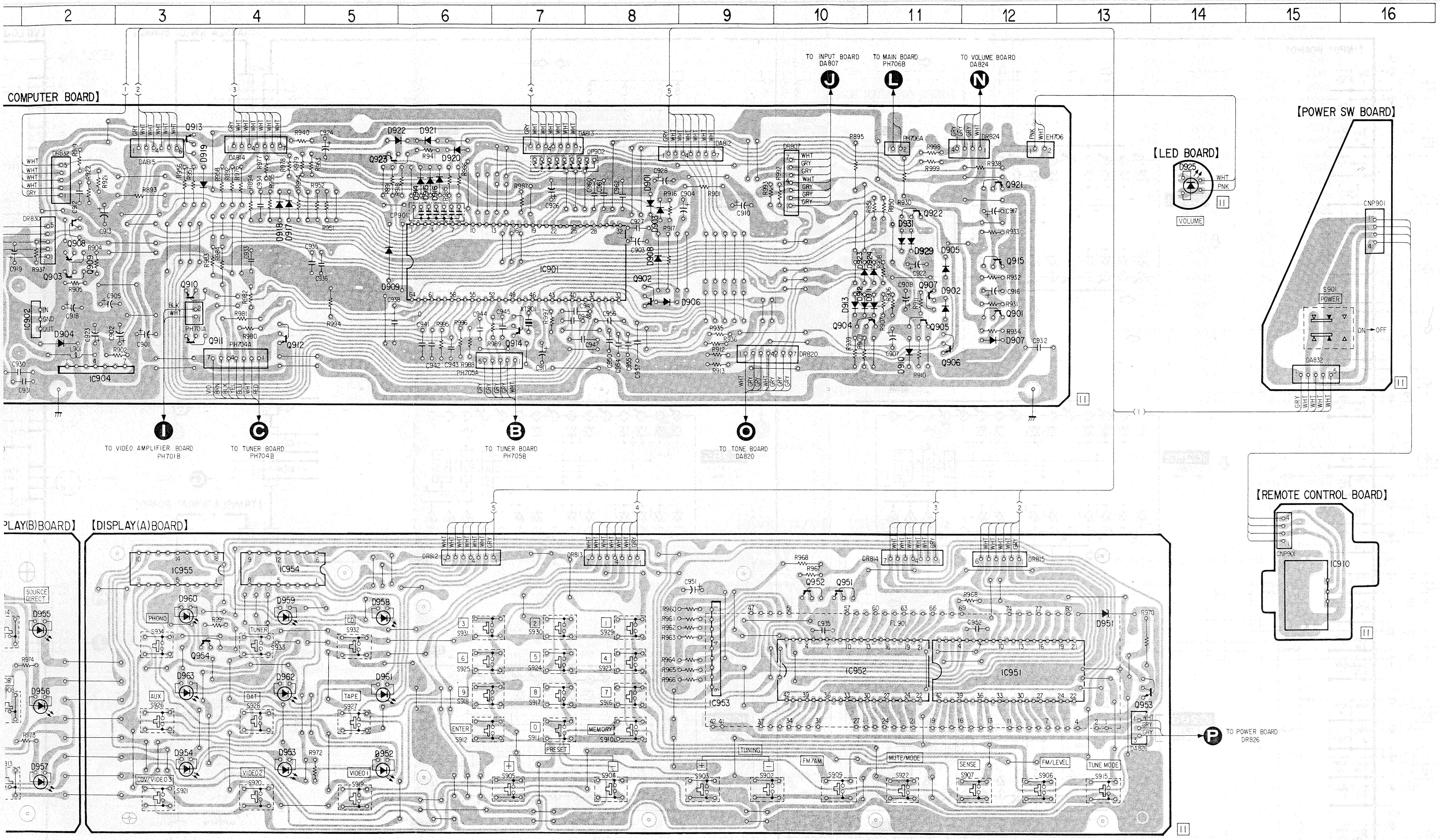
G
H
I
J
[MICRO COMPUTER BOARD]
TO INPUT BOARD DA807
J
TO POWER BOARD DA830
M
TO VIDEO AMPLIFIER BOARD PH701B
I
TO TUNER BOARD PH704B
C
TO TUNER BOARD PH705B
B
TO TONE BOARD DA820
O
IC901
IC902
IC904
[DISPLAY(B)BOARD]
[DISPLAY(A)BOARD]
IC955
IC954
IC953
IC952
SOURCE DIRECT
ADAPTOR
MUTING -20dB
PHONO
TUNER
CD
AUX
DAT
TAPE
CDV/VIDEO3
VIDEO2
VIDEO1
ENTER
PRESET
MEMORY
TUNING
FM/AM
FL901
FLUORESCENT INDICATOR TUBE
AUTO
HIGH
SENSE
MUTING
STEREO
AM
FM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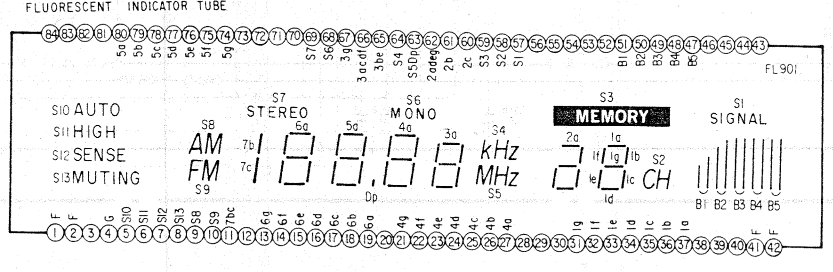
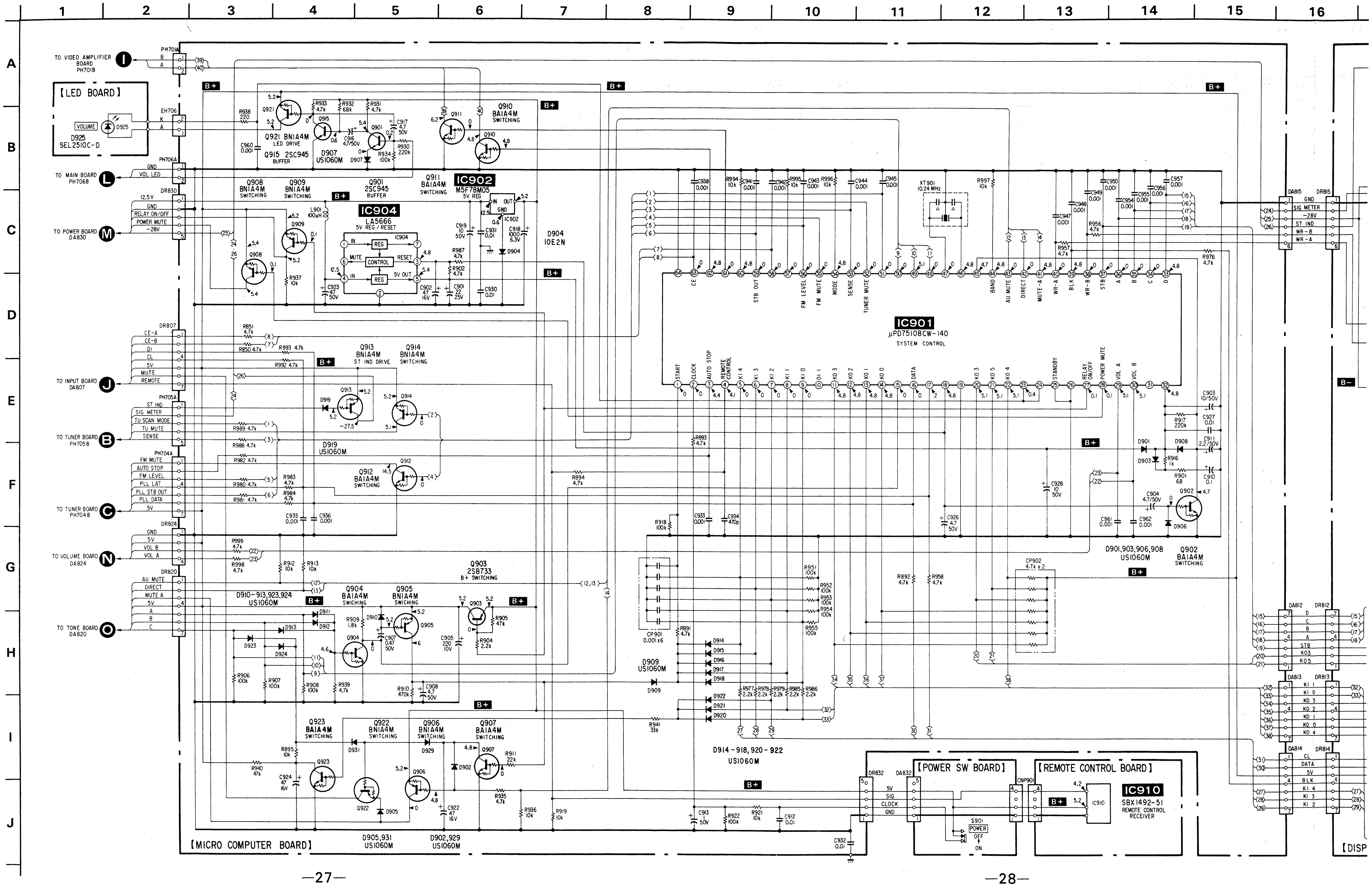
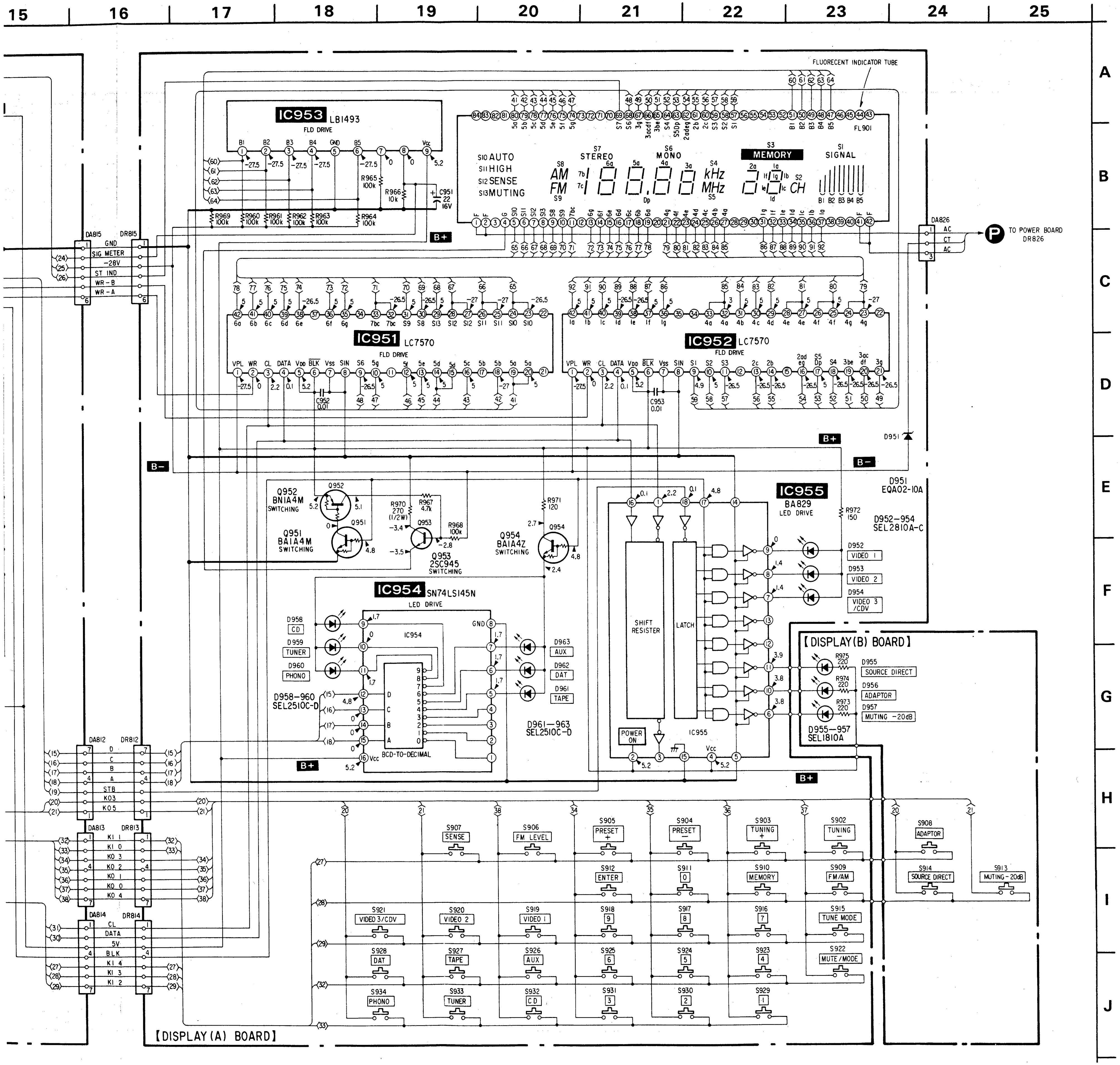
15
16
COMPUTER BOARD】
TO INPUT BOARD DA807
J
TO MAIN BOARD PH706B
L
TO VOLUME BOARD DA824
N
【POWER SW BOARD】
【LED BOARD】
D925
VOLUME
CNP901
S901
POWER
ON ↔ OFF
DA832
IC901
IC902
IC904
Q913
Q919
DA815
DA814
DA813
DA812
DR807
PH706A
DR824
EH706
DR832
DR830
PH701A
PH704A
PH705A
DR820
Q901
Q902
Q903
Q904
Q905
Q906
Q907
Q908
Q909
Q910
Q911
Q912
Q914
Q915
Q921
Q922
Q923
D902
D904
D905
D906
D907
D908
D909
D910
D913
D917
D918
D920
D921
D922
D929
D931
X901
TO VIDEO AMPLIFIER BOARD PH701B
I
TO TUNER BOARD PH704B
C
TO TUNER BOARD PH705B
B
TO TONE BOARD DA820
O
【REMOTE CONTROL BOARD】
IC910
PLAY(B)BOARD】
【DISPLAY(A)BOARD】
IC955
IC954
IC953
IC952
IC951
DR812
DR813
DR814
DR815
DA826
Q951
Q952
Q953
Q954
D951
D952
D953
D954
D955
D956
D957
D958
D959
D960
D961
D962
D963
SOURCE DIRECT
PHONO
TUNER
CD
AUX
DAT
TAPE
CDV/VIDEO3
VIDEO2
VIDEO1
ENTER
MEMORY
PRESET
TUNING
FM/AM
MUTE/MODE
SENSE
FM/LEVEL
TUNE MODE
S902
S903
S904
S905
S906
S907
S909
S910
S911
S912
S915
S916
S917
S918
S919
S920
S921
S922
S923
S924
S925
S926
S927
S928
S929
S930
S931
S932
S933
S934
FL901
TO POWER BOARD DR826
P

FL901
FLUORESCENT INDICATOR TUBE


FL901
S10 AUTO
S11 HIGH
S12 SENSE
S13 MUTING
S8
AM
FM
S9
S7
STEREO
S6
MONO
S4
kHz
MHz
S5
S3
MEMORY
S2
CH
S1
SIGNAL
B1 B2 B3 B4 B5
Dp

3-8. SCHEMATIC DIAGRAM —MICRO COMPUTER/DISPLAY SECTION—


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
TO VIDEO AMPLIFIER BOARD PH701B
[LED BOARD]
VOLUME
D925
D925 SEL2510C-D
TO MAIN BOARD PH706B
GND
VOL LED
TO POWER BOARD DA830
12.5V
GND
RELAY ON/OFF
POWER MUTE
-28V
TO INPUT BOARD DA807
CE-A
CE-B
DI
CL
5V
MUTE
REMOTE
TO TUNER BOARD PH705B
ST IND
SIG METER
TU SCAN MODE
TU MUTE
SENSE
TO TUNER BOARD PH704B
FM MUTE
AUTO STOP
FM LEVEL
PLL LAT
PLL STB OUT
PLL DATA
5V
TO VOLUME BOARD DA824
GND
5V
VOL B
VOL A
TO TONE BOARD DA820
AU MUTE
DIRECT
MUTE A
5V
A
B
C
Q921 BN1A4M LED DRIVE
Q915 2SC945 BUFFER
D907 US1060M
Q910 BA1A4M SWITCHING
Q908 BN1A4M SWITCHING
Q909 BN1A4M SWITCHING
Q901 2SC945 BUFFER
Q911 BA1A4M SWITCHING
IC902 M5F78M05 5V REG
IC904 LA5666 5V REG / RESET
IN
REG
MUTE
CONTROL
RESET
5V OUT
D904 10E2N
Q913 BN1A4M ST IND DRIVE
Q914 BN1A4M SWITCHING
D919 US1060M
Q912 BA1A4M SWITCHING
IC901 µPD75108CW-140 SYSTEM CONTROL
CE
STB OUT
FM LEVEL
FM MUTE
MODE
SENSE
TUNER MUTE
BAND
AU MUTE
DIRECT
MUTE-A
WR-A
BLK
WR-B
STB
A
B
C
D
START
CLOCK
AUTO STOP
REMOTE CONTROL
KI 4
KI 3
KI 2
KI 1
KI 0
DI 1
DI 0
KO 3
KO 2
KO 1
KO 0
DATA
KO 3
KO 5
KO 4
STANDBY
RELAY ON/OFF
POWER MUTE
VOL A
VOL B
XT901 10.24 MHz
Q903 2SB733 B+ SWITCHING
D910-913,923,924 US1060M
Q904 BA1A4M SWICHING
Q905 BN1A4M SWICHING
Q923 BA1A4M SWITCHING
Q922 BN1A4M SWITCHING
Q906 BN1A4M SWITCHING
Q907 BA1A4M SWITCHING
D905,931 US1060M
D902,929 US1060M
[MICRO COMPUTER BOARD]
CP901 0.001 x 6
CP902 4.7k x 2
D909 US1060M
D914-918, 920-922 US1060M
D901,903,906,908 US1060M
Q902 BA1A4M SWITCHING
[POWER SW BOARD]
S901 POWER OFF ON
[REMOTE CONTROL BOARD]
IC910 SBX1492-51 REMOTE CONTROL RECEIVER
5V
SIG
CLOCK
GND
GND
SIG METER
-28V
ST IND
WR-B
WR-A
D
C
B
A
STB
KO3
KO5
KI 1
KI 0
KO 3
KO 2
KO 1
KO 0
KO 4
CL
DATA
5V
BLK
KI 4
KI 3
KI 2
B+
B-
[DISP


IC953 LB1493 FLD DRIVE
IC951 LC7570 FLD DRIVE
IC952 LC7570 FLD DRIVE
IC954 SN74LS145N LED DRIVE
IC955 BA829 LED DRIVE
FLUORECENT INDICATOR TUBE
FL901
Q952 BN1A4M SWITCHING
Q951 BA1A4M SWITCHING
Q953 2SC945 SWITCHING
Q954 BA1A4Z SWITCHING
D951 EQA02-10A
D952–954 SEL2810A-C
D958–960 SEL2510C-D
D961–963 SEL2510C-D
D955–957 SEL1810A
SHIFT RESISTER
LATCH
BCD-TO-DECIMAL
POWER ON
TO POWER BOARD DR826
[DISPLAY(A) BOARD]
[DISPLAY(B) BOARD]
B+
B-
AM FM STEREO MONO MEMORY SIGNAL kHz MHz CH
S10 AUTO
S11 HIGH
S12 SENSE
S13 MUTING
S901 POWER
S902 TUNING −
S903 TUNING +
S904 PRESET −
S905 PRESET +
S906 FM LEVEL
S907 SENSE
S908 ADAPTOR
S909 FM/AM
S910 MEMORY
S911 0
S912 ENTER
S913 MUTING -20dB
S914 SOURCE DIRECT
S915 TUNE MODE
S916 7
S917 8
S918 9
S919 VIDEO 1
S920 VIDEO 2
S921 VIDEO 3/CDV
S922 MUTE/MODE
S923 4
S924 5
S925 6
S926 AUX
S927 TAPE
S928 DAT
S929 1
S930 2
S931 3
S932 CD
S933 TUNER
S934 PHONO
15 16 17 18 19 20 21 22 23 24 25
A B C D E F G H I J

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- Switch

Ref. No.	Switch	Position
S901	POWER	ON
S902	TUNING −	OFF
S903	TUNING +	OFF
S904	PRESET −	OFF
S905	PRESET +	OFF
S906	FM LEVEL	OFF
S907	SENSE	OFF
S908	ADAPTOR	OFF
S909	FM/AM	OFF
S910	MEMORY	OFF
S911	0	OFF
S912	ENTER	OFF
S913	MUTING −20 dB	OFF
S914	SOURCE DIRECT	OFF
S915	TUNE MODE	OFF
S916	7	OFF
S917	8	OFF
S918	9	OFF
S919	VIDEO 1	OFF
S920	VIDEO 2	OFF
S921	VIDEO 3/CDV	OFF
S922	MUTE/MODE	OFF
S923	4	OFF
S924	5	OFF
S925	6	OFF
S926	AUX	OFF
S927	TAPE	OFF
S928	DAT	OFF
S929	1	OFF
S930	2	OFF
S931	3	OFF
S932	CD	OFF
S933	TUNER	OFF
S934	PHONO	OFF

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.

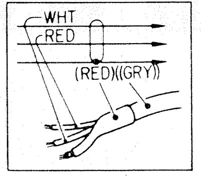
3-9. PRINTED WIRING BOARD —AUDIO/POWER SECTION—

- Refer to page 10 for Semiconductor Lead Layouts
- Semiconductor Location

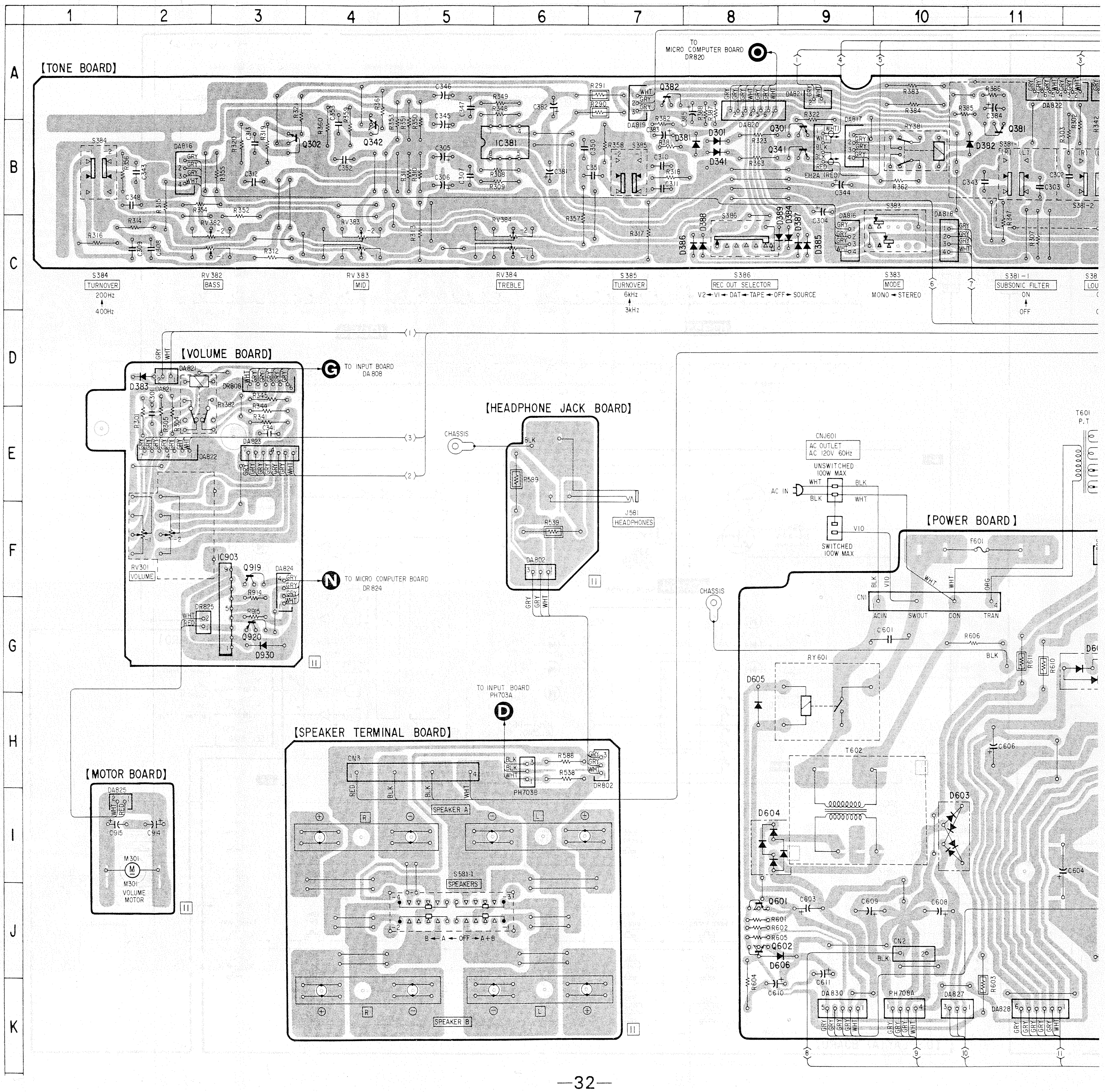
Ref. No.	Location	Ref. No.	Location
D301	B-8	Q342	B-4
D341	B-8	Q381	B-11
D381	B-8	Q382	A-7
D382	B-11	Q401	C-22
D383	D-2	Q402	B-22
D384	C-9	Q441	D-22
D385	C-9	Q442	D-22
D386	C-8	Q501	G-24
D387	C-9	Q502	G-24
D388	C-8	Q503	G-24
D389	C-9	Q504	G-25
D481	B-21	Q505	G-26
D482	D-20	Q506	H-24
D483	D-20	Q507	H-24
D501	G-25	Q508	H-25
D502	G-26	Q509	J-23
D503	H-25	Q510	I-25
D504	H-26	Q511	I-25
D505	H-25	Q512	J-26
D506	I-25	Q513	J-25
D507	H-25	Q514	J-21
D508	I-22	Q515	J-24
D509	I-22	Q516	J-22
D551	G-17	Q517	J-24
D552	G-16	Q518	I-23
D553	H-16	Q551	G-18
D554	H-16	Q552	G-17
D555	H-17	Q553	G-17
D556	I-17	Q554	G-17
D557	I-17	Q555	G-16
D558	I-19	Q556	H-18
D559	I-19	Q557	H-18
D601	H-13	Q558	H-17
D602	G-12	Q559	J-19
D603	I-10	Q560	I-17
D604	I-8	Q561	I-16
D605	H-8	Q562	J-16
D606	J-9	Q563	J-17
D651	C-20	Q564	J-20
D652	C-20	Q565	J-17
D653	C-19	Q566	J-20
D654	C-18	Q567	J-18
D655	C-16	Q568	I-19
D656	B-17	Q601	J-8
D801	H-19	Q602	J-8
D802	H-20	Q651	C-20
D930	G-3	Q652	C-19
		Q653	C-18
IC381	B-6	Q654	C-19
IC481	C-22	Q655	C-16
IC801	H-20	Q656	C-17
IC903	F-3	Q801	H-19
		Q802	I-19
Q301	B-9	Q919	F-3
Q302	B-3	Q920	G-3
Q341	B-9		

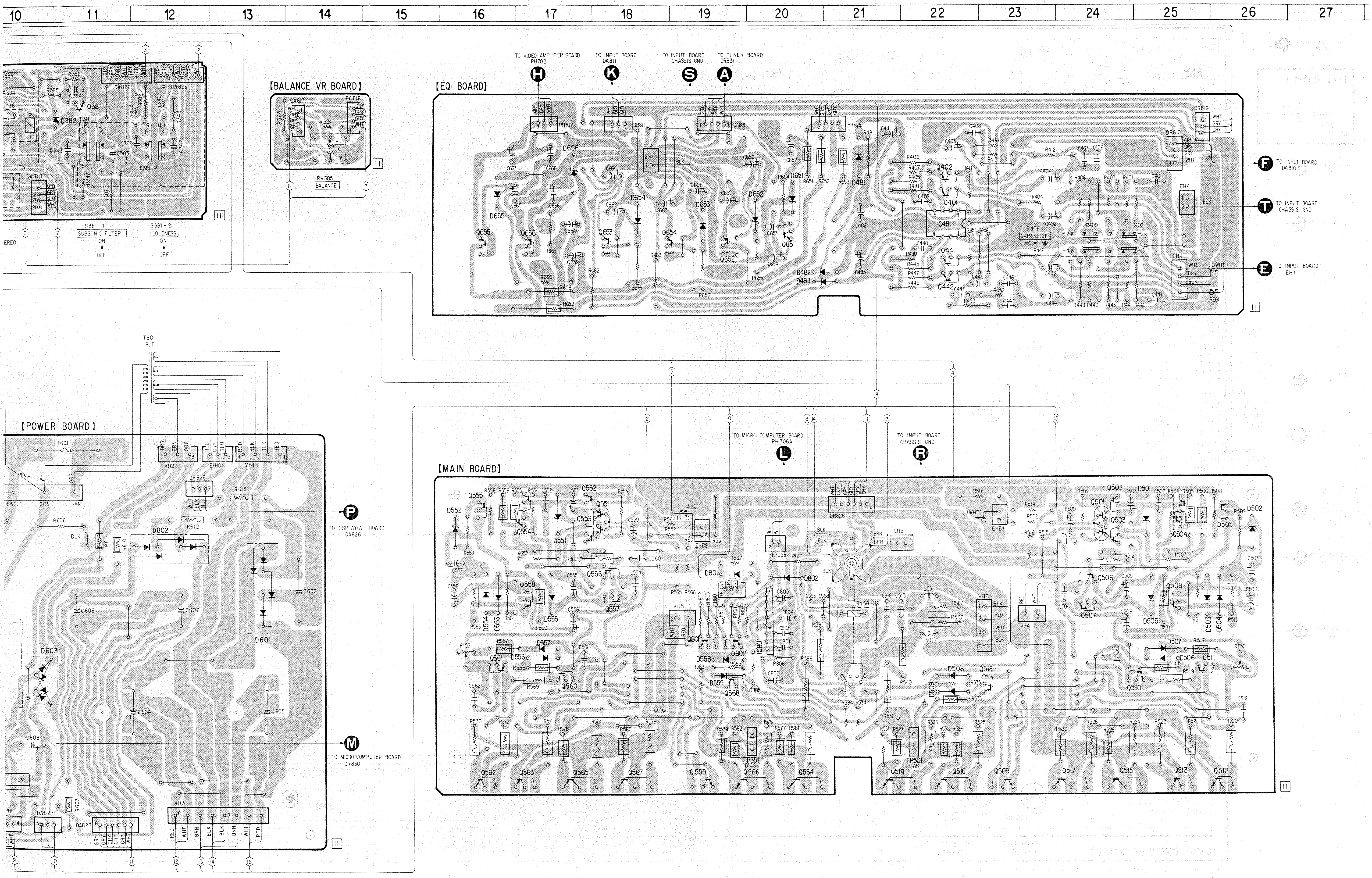
Note on Mounting Diagram:

- Color code or sleeving over the end of the jacket.

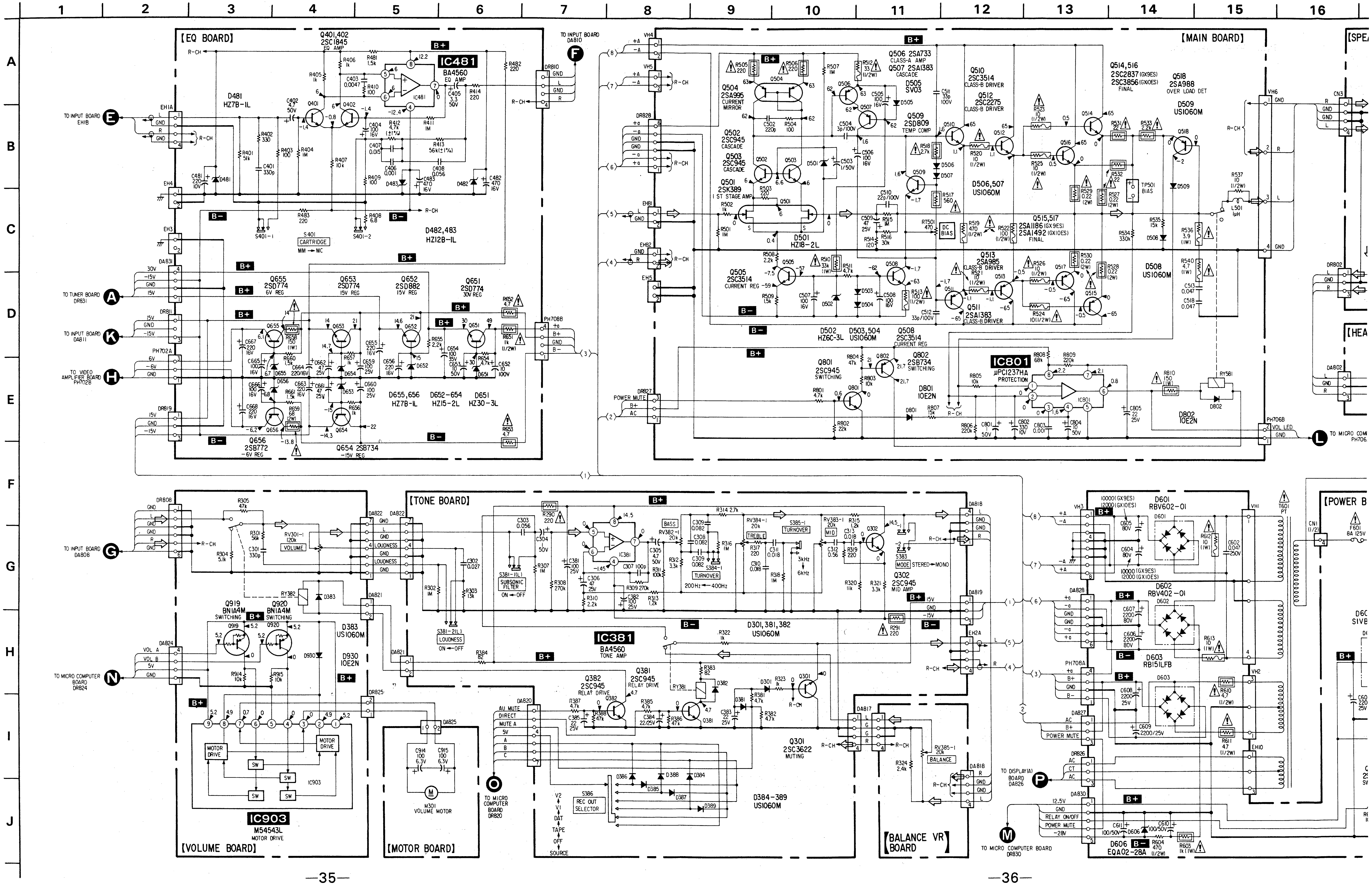

WHT
RED
(RED)(GRY)

- ○—— : parts extracted from the component side.

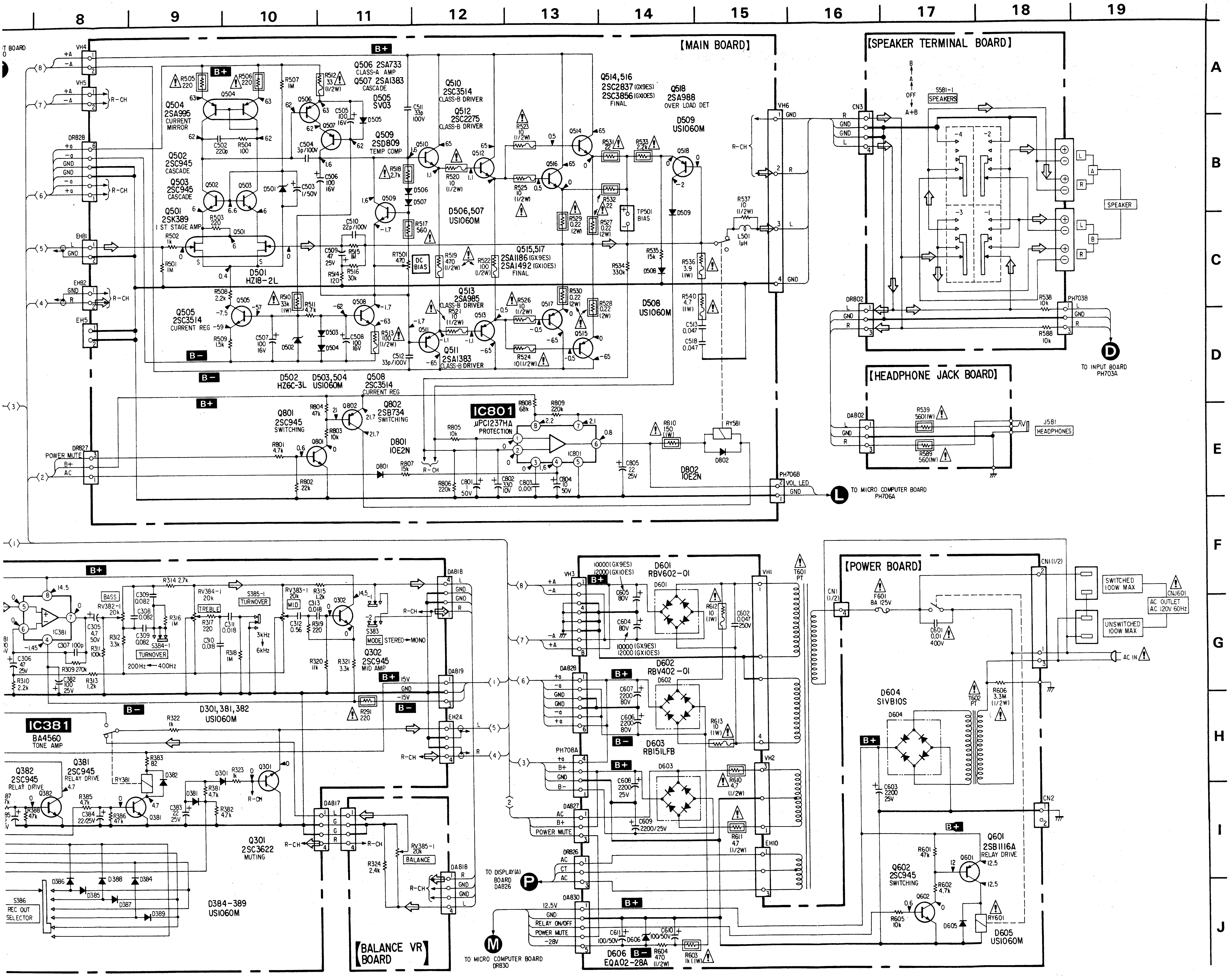

1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
[TONE BOARD]
TO MICRO COMPUTER BOARD DR820
S384 TURNOVER 200Hz 400Hz
RV382 BASS
RV383 MID
RV384 TREBLE
S385 TURNOVER 6kHz 3kHz
S386 REC OUT SELECTOR V2 ← VI ← DAT ← TAPE ← OFF ← SOURCE
S383 MODE MONO ← STEREO
S381-1 SUBSONIC FILTER ON OFF
IC381
Q302
Q342
Q382
Q301
Q341
Q381
D301
D341
D381
D382
D386
D388
D389
D384
D387
D385
[VOLUME BOARD]
D383
TO INPUT BOARD DA808
IC903
Q919
Q920
D930
RV301 VOLUME
TO MICRO COMPUTER BOARD DR824
[HEADPHONE JACK BOARD]
CHASSIS
J581 HEADPHONES
[MOTOR BOARD]
M301 VOLUME MOTOR
TO INPUT BOARD PH703A
[SPEAKER TERMINAL BOARD]
SPEAKER A
SPEAKER B
S581-1 SPEAKERS
B ← A ← OFF → A+B
CNJ601 AC OUTLET AC 120V 60Hz
UNSWITCHED 100W MAX
SWITCHED 100W MAX
AC IN
[POWER BOARD]
F601
T601 P.T
RY601
T602
D603
D604
D605
D606
Q601
Q602
C604
C606
PH708A


10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
[BALANCE VR BOARD]
RV385
BALANCE
S381-1
SUBSONIC FILTER
ON
OFF
S381-2
LOUDNESS
ON
OFF
STEREO
[EQ BOARD]
TO VIDEO AMPLIFIER BOARD PH702
H
TO INPUT BOARD DA811
K
TO INPUT BOARD CHASSIS GND
S
TO TUNER BOARD DR831
A
TO INPUT BOARD DA810
F
TO INPUT BOARD CHASSIS GND
T
TO INPUT BOARD EH1
E
S401
CARTRIDGE
MC MM
IC481
IC401
T601
P.T
[POWER BOARD]
TO DISPLAY(A) BOARD DA826
P
TO MICRO COMPUTER BOARD DR830
M
[MAIN BOARD]
TO MICRO COMPUTER BOARD PH706A
L
TO INPUT BOARD CHASSIS GND
R
RY581
TP551 BIAS
TP501 BIAS

3-10. SCHEMATIC DIAGRAM —AUDIO/POWER SECTION



[EQ BOARD]
Q401,402 2SC1845 EQ AMP
IC481 BA4560 EQ AMP
D481 HZ7B-1L
D482,483 HZ12B-1L
S401 CARTRIDGE MM ⟷ MC
TO INPUT BOARD EH1B
TO INPUT BOARD DA810
TO TUNER BOARD DR831
TO INPUT BOARD DA811
TO VIDEO AMPLIFIER BOARD PH702B
Q655 2SD774 6V REG
Q653 2SD774 15V REG
Q652 2SD882 15V REG
Q651 2SD774 30V REG
Q656 2SB772 -6V REG
Q654 2SB734 -15V REG
D655,656 HZ7B-1L
D652-654 HZ15-2L
D651 HZ30-3L
[MAIN BOARD]
Q504 2SA995 CURRENT MIRROR
Q502 2SC945 CASCADE
Q503 2SC945 CASCADE
Q501 2SK389 1 ST STAGE AMP
D501 HZ18-2L
Q505 2SC3514 CURRENT REG
Q506 2SA733 CLASS-A AMP
Q507 2SA1383 CASCADE
D505 SV03
Q509 2SD809 TEMP COMP
Q510 2SC3514 CLASS-B DRIVER
Q512 2SC2275 CLASS-B DRIVER
D506,507 US1060M
Q514,516 2SC2837 (GX9ES) 2SC3856 (GX10ES) FINAL
Q518 2SA988 OVER LOAD DET
D509 US1060M
Q515,517 2SA1186 (GX9ES) 2SA1492 (GX10ES) FINAL
Q513 2SA985 CLASS-B DRIVER
Q511 2SA1383 CLASS-B DRIVER
D508 US1060M
D502 HZ6C-3L
D503,504 US1060M
Q508 2SC3514 CURRENT REG
Q801 2SC945 SWITCHING
Q802 2SB734 SWITCHING
IC801 μPC1237HA PROTECTION
D801 10E2N
D802 10E2N
RY581
TP501 BIAS
DC BIAS
TO MICRO COMPUTER BOARD PH706
[TONE BOARD]
IC381 BA4560 TONE AMP
Q302 2SC945 MID AMP
Q382 2SC945 RELAY DRIVE
Q381 2SC945 RELAY DRIVE
Q301 2SC3622 MUTING
D301,381,382 US1060M
D384-389 US1060M
S381-1(L) SUBSONIC FILTER ON ⟷ OFF
S381-2(L) LOUDNESS ON ⟷ OFF
BASS TREBLE MID
S384-1 TURNOVER 200Hz ⟷ 400Hz
S385-1 TURNOVER 3kHz 6kHz
S383 MODE STEREO ⟷ MONO
S386 REC OUT SELECTOR
V2 V1 DAT TAPE OFF SOURCE
RY381
[VOLUME BOARD]
RV301-1 120k VOLUME
Q919 BN1A4M SWITCHING
Q920 BN1A4M SWITCHING
D383 US1060M
D930 10E2N
IC903 M54543L MOTOR DRIVE
MOTOR DRIVE
SW
TO INPUT BOARD DA808
TO MICRO COMPUTER BOARD DR824
[MOTOR BOARD]
M301 VOLUME MOTOR
TO MICRO COMPUTER BOARD DR820
[BALANCE VR BOARD]
RV385-1 20k BALANCE
D601 RBV602-01
D602 RBV402-01
D603 RB151LFB
D606 EQA02-28A
T601 PT
F601 8A 125V
TO DISPLAY(A) BOARD DA826
TO MICRO COMPUTER BOARD DR830
AC CT AC
12.5V GND RELAY ON/OFF POWER MUTE -28V
[POWER B
[SPE
[HEA
B+ B-
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J


[MAIN BOARD]
[SPEAKER TERMINAL BOARD]
[HEADPHONE JACK BOARD]
[POWER BOARD]
[BALANCE VR BOARD]
Q506 2SA733 CLASS-A AMP
Q507 2SA1383 CASCADE
Q510 2SC3514 CLASS-B DRIVER
Q512 2SC2275 CLASS-B DRIVER
Q514,516 2SC2837 (GX9ES) 2SC3856 (GX10ES) FINAL
Q518 2SA988 OVER LOAD DET
D509 US1060M
Q504 2SA995 CURRENT MIRROR
D505 SV03
Q509 2SD809 TEMP COMP
Q502 2SC945 CASCADE
Q503 2SC945 CASCADE
Q501 2SK389 1 ST STAGE AMP
D506,507 US1060M
D501 HZ18-2L
Q515,517 2SA1186 (GX9ES) 2SA1492 (GX10ES) FINAL
Q513 2SA985 CLASS-B DRIVER
Q511 2SA1383 CLASS-B DRIVER
Q505 2SC3514 CURRENT REG
D508 US1060M
D502 HZ6C-3L
D503,504 US1060M
Q508 2SC3514 CURRENT REG
Q801 2SC945 SWITCHING
Q802 2SB734 SWITCHING
IC801 μPC1237HA PROTECTION
D801 10E2N
D802 10E2N
RY581
TO INPUT BOARD PH703A
TO MICRO COMPUTER BOARD PH706A
SPEAKER
HEADPHONES
J581
S581-1 SPEAKERS
IC381 BA4560 TONE AMP
BASS
TREBLE
MID
TURNOVER
MODE STEREO→MONO
BALANCE
Q302 2SC945 MID AMP
D301,381,382 US1060M
Q381 2SC945 RELAY DRIVE
Q382 2SC945 RELAY DRIVE
Q301 2SC3622 MUTING
D384-389 US1060M
S386 REC OUT SELECTOR
D601 RBV602-01
D602 RBV402-01
D603 RB151LFB
D604 S1VB10S
D605 US1060M
D606 EQA02-28A
Q601 2SB1116A RELAY DRIVE
Q602 2SC945 SWITCHING
F601 8A 125V
T601 PT
T602 PT
SWITCHED 100W MAX
UNSWITCHED 100W MAX
AC OUTLET AC 120V 60Hz
AC IN
TO DISPLAY(A) BOARD DA826
TO MICRO COMPUTER BOARD DR830
8
9
10
11
12
13
14
15
16
17
18
19
A
B
C
D
E
F
G
H
I
J

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- Components for right channel have same values as for left channel. Reference numbers are coded from 550–590.
- ⊣▭⊢ : nonflammable resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Switch

Ref. No.	Switch	Position
S381-1	SUBSONIC FILTER	OFF
S381-2	LOUDNESS	OFF
S383	MODE	STEREO
S384	TURNOVER	400 Hz
S385	TURNOVER	3 kHz
S386	REC OUT SELECTOR	OFF
S401	CARTRIDGE	MM
S581	SPEAKERS	OFF

- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

SECTION 4
EXPLODED VIEWS

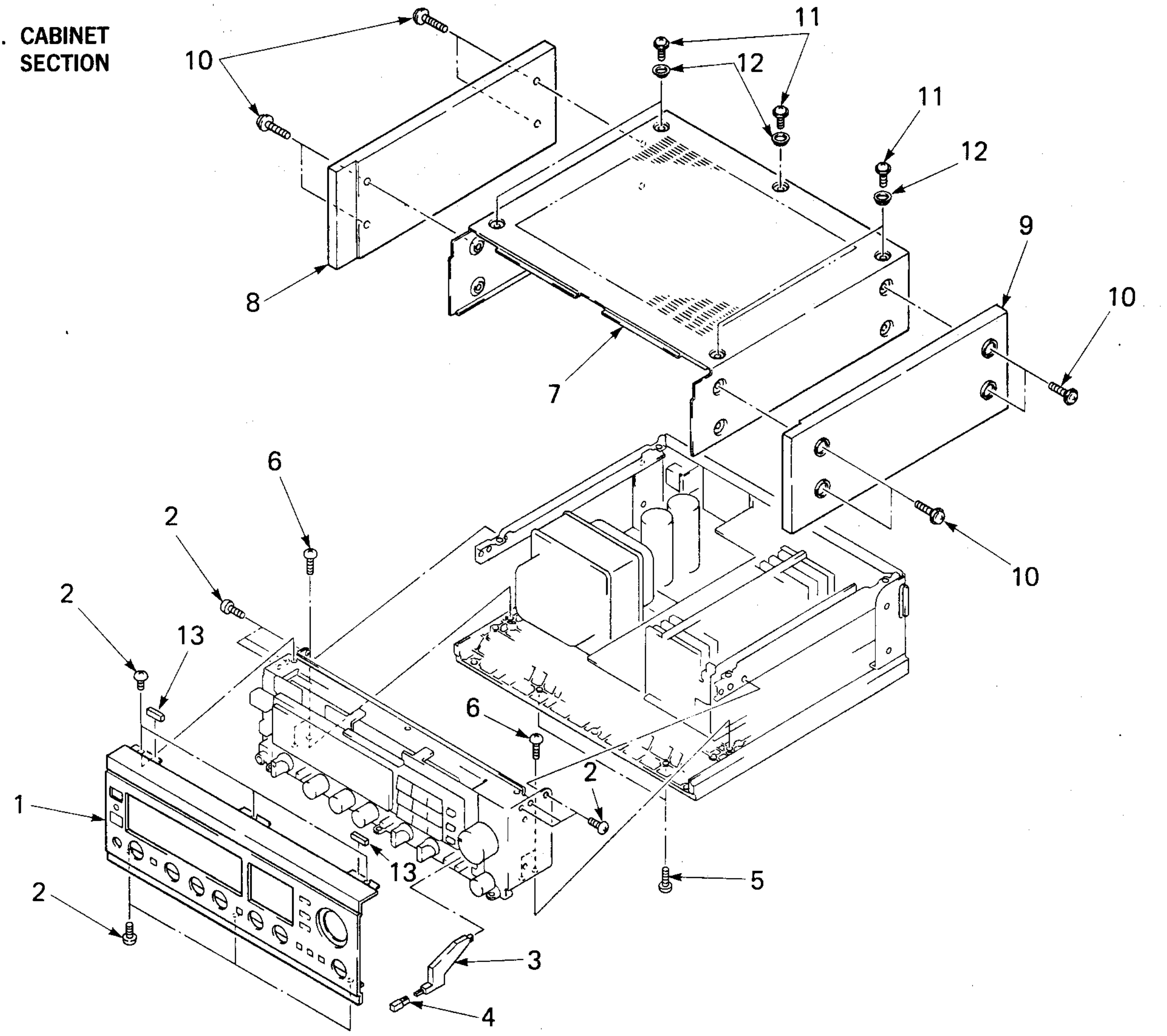
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

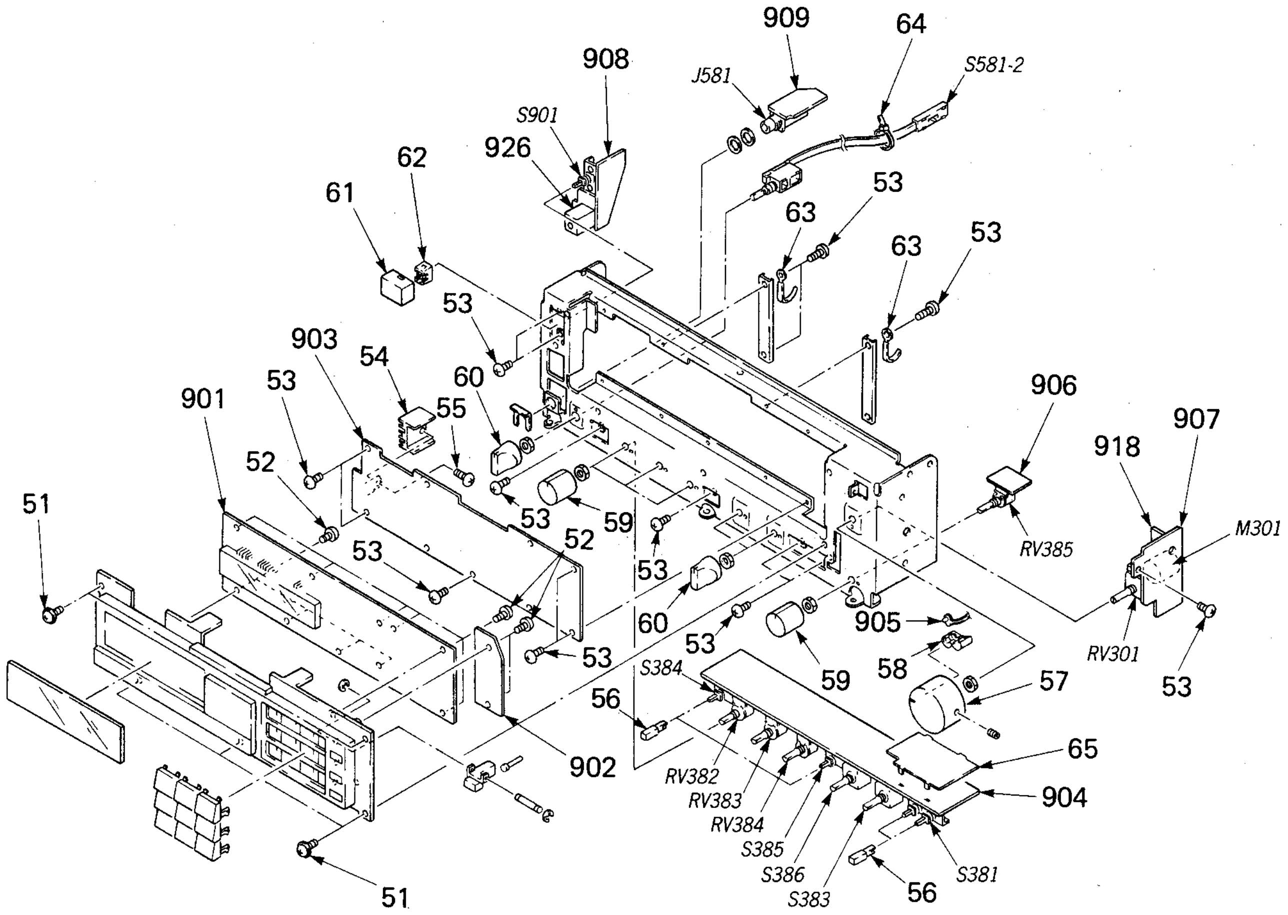
4-1. CABINET SECTION



Ref.No	Part No.	Description	Remarks
1	A-4323-004-A	(GX9ES : US)....PANEL ASSY, FRONT	
1	A-4323-005-A	(GX10ES)....PANEL ASSY, FRONT	
2	7-682-547-09	SCREW +BV 3X6, S TIGHT	
3	⋆4-924-947-01	LEVER, PUSH SWITCH	
4	4-855-804-11	KNOB, SQUARE	
5	7-685-876-09	SCREW +BVTT 3X16 (S)	
6	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	

Ref.No	Part No.	Description	Remarks
7	4-908-868-01	CASE	
8	X-4885-930-1	BOARD (L) ASSY,SIDE,ORNAMENTAL	
9	X-4885-931-1	BOARD (R) ASSY,SIDE,ORNAMENTAL	
10	4-885-979-11	SCREW (4X25)	
11	4-886-821-01	SCREW, S TIGHT, +PTTWH 3X6	
12	3-576-298-11	ESCUTCHEON	
13	⋆4-908-872-01	CUSHION	

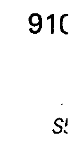
4-2. FRONT PANEL SECTION



Ref.No	Part No.	Description	Remarks
51	4-886-821-01	SCREW, S TIGHT, +PTTWH 3X6	
52	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT	
53	7-682-547-09	SCREW +BVTT 3X6 (S)	
54	⋆4-363-146-11	HEAT SINK, V. OUT	
55	7-682-548-09	SCREW B 3X8	
56	4-855-804-11	KNOB, SQUARE	
57	X-4915-439-1	KNOB (DIA.45) ASSY	
58	⋆4-901-919-00	HOUSE, LED LAMP	
59	4-916-746-01	KNOB (DIA.21)	
60	4-916-745-01	KNOB (DIA.21)	
61	4-908-856-01	KNOB, SQUARE	
62	⋆4-864-307-00	RING	
63	⋆4-908-882-01	CLAMP	
64	3-655-653-21	BAND (TAITON), BINDING	
65	⋆4-924-962-01	PLATE, SHIELD	
901	⋆1-626-750-11	PC BOARD, DISPLAY (A)	
902	⋆1-626-751-11	PC BOARD, DISPLAY (B)	
903	⋆A-4375-387-A	MOUNTED PCB, MICRO COMPUTER	
904	⋆A-4410-772-A	MOUNTED PCB, TONE	
905	⋆1-626-759-11	PC BOARD, LED	
906	⋆1-626-753-11	PC BOARD, BALANCE VR	

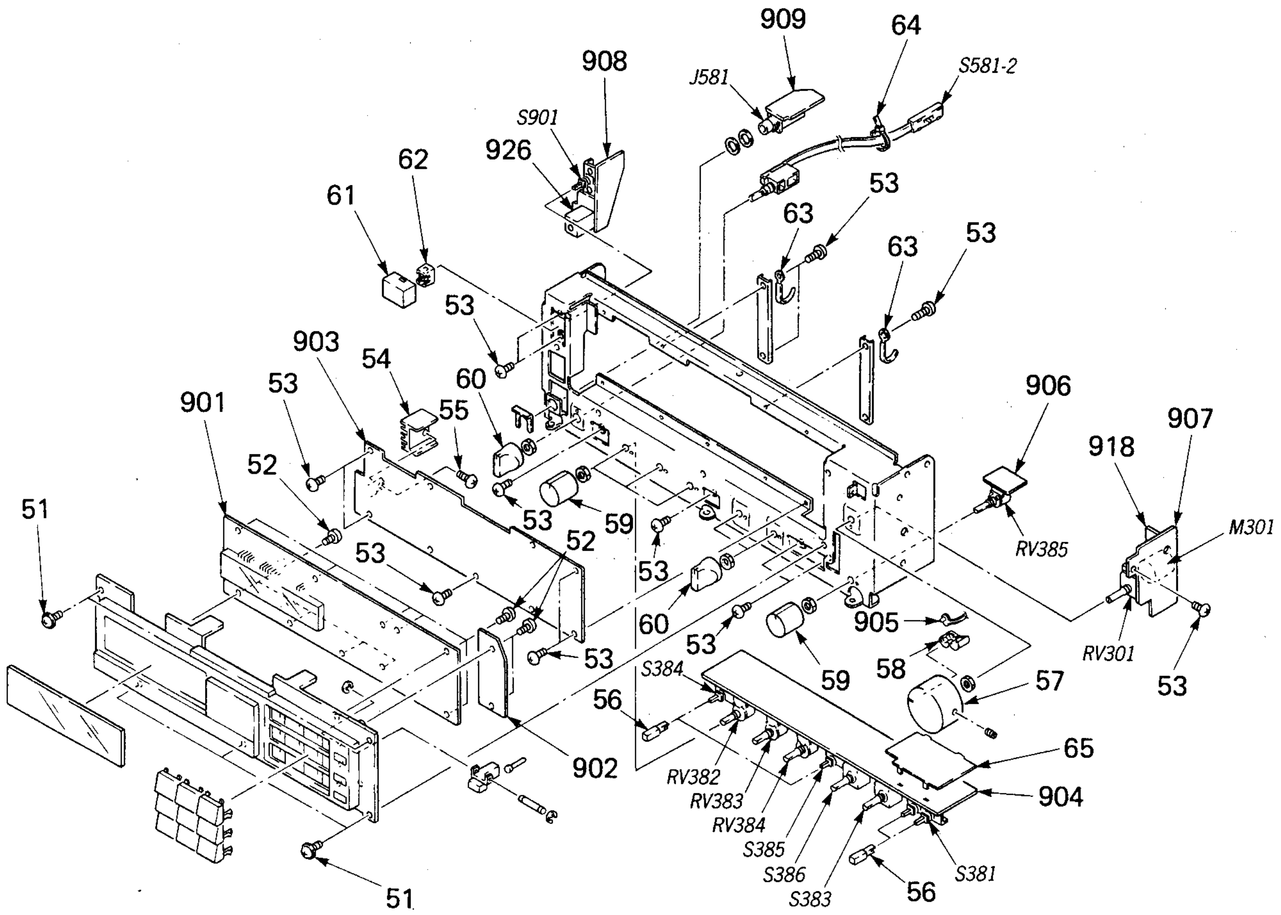
Ref.No	Part No.	Description	Remarks
907	⋆1-626-754-11	PC BOARD, VOLUME	
908	⋆1-626-760-11	PC BOARD, POWER SW	
918	⋆1-626-752-11	PC BOARD, MOTOR	
926	⋆1-626-758-11	PC BOARD, REMOTE CONTROL	
J581	1-507-863-31	(GX9ES)....JACK, LARGE TYPE (HEADPHONES)	
J581	1-507-863-41	(GX10ES)....JACK, LARGE TYPE (HEADPHONES)	
RV301	1-238-143-11	RES, VAR, CARBON 120K/120K (WITH M301) (VOLUME)	
RV382	1-238-140-11	RES, VAR, CARBON 20K/20K (BASS)	
RV383	1-238-141-11	RES, VAR, CARBON 20K/20K (MID)	
RV384	1-238-141-11	RES, VAR, CARBON 20K/20K (TREBLE)	
RV385	1-238-142-11	RES, VAR, CARBON 20K/20K (BALANCE)	
S381	1-571-499-11	SWITCH, PUSH (2 KEY) (SUBSONIC FILTER, LOUNDNESS)	
S383	1-571-498-11	SWITCH, ROTARY (MODE)	
S384	1-571-500-11	SWITCH, PUSH (1 KEY) (TURNOVER 200/400Hz)	
S385	1-571-500-11	SWITCH, PUSH (1 KEY) (TURNOVER 3K/6KHz)	
S386	1-571-496-11	SWITCH, ROTARY (REC OUT SELECTOR)	
S401	1-570-029-11	SWITCH, PUSH (1KEY) (CARTRIDGE)	
S581-2	1-571-497-11	SWITCH, ROTARY (REMOTE) (SPEAKERS)	
S901	1-571-241-11	SWITCH, PUSH (1KEY) (POWER)	

4-3. BACK



Ref.No	Part
101	⋆4-90
101	⋆4-90
102	7-68
103	7-68
104	7-68
105	4-88
106	7-68
107	⋆4-92
108	⋆4-90
109	4-91
110	⋆4-83
111	4-92
111	⋆4-92
112	7-68
113	7-68
114	7-68
909	⋆1-62
910	⋆1-62
911	⋆1-62
912	⋆1-62
913	⋆1-62
914	⋆1-62
915	⋆1-62
916	⋆1-62

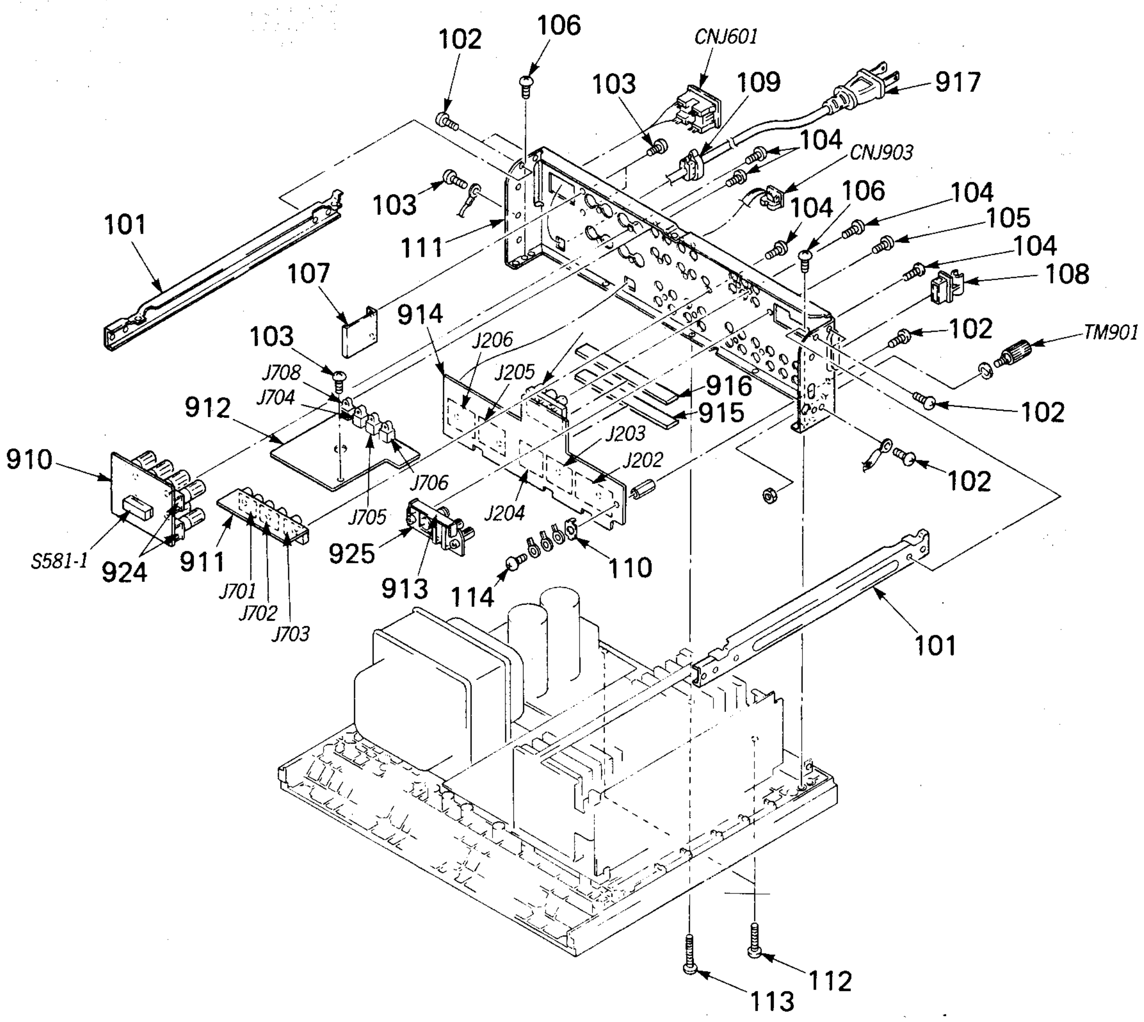
4-2. FRONT PANEL SECTION



Ref.No	Part No.	Description	Remarks
51	4-886-821-01	SCREW, S TIGHT, +PTTWH 3X6	
52	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT	
53	7-682-547-09	SCREW +BVTT 3X6 (S)	
54	*4-363-146-11	HEAT SINK, V. OUT	
55	7-682-548-09	SCREW B 3X8	
56	4-855-804-11	KNOB, SQUARE	
57	X-4915-439-1	KNOB (DIA.45) ASSY	
58	*4-901-919-00	HOUSE, LED LAMP	
59	4-916-746-01	KNOB (DIA.21)	
60	4-916-745-01	KNOB (DIA.21)	
61	4-908-856-01	KNOB, SQUARE	
62	*4-864-307-00	RING	
63	*4-908-882-01	CLAMP	
64	3-655-653-21	BAND (TAITON), BINDING	
65	*4-924-962-01	PLATE, SHIELD	
901	*1-626-750-11	PC BOARD, DISPLAY (A)	
902	*1-626-751-11	PC BOARD, DISPLAY (B)	
903	*A-4375-387-A	MOUNTED PCB, MICRO COMPUTER	
904	*A-4410-772-A	MOUNTED PCB, TONE	
905	*1-626-759-11	PC BOARD, LED	
906	*1-626-753-11	PC BOARD, BALANCE VR	

Ref.No	Part No.	Description	Remarks
907	*1-626-754-11	PC BOARD, VOLUME	
908	*1-626-760-11	PC BOARD, POWER SW	
918	*1-626-752-11	PC BOARD, MOTOR	
926	*1-626-758-11	PC BOARD, REMOTE CONTROL	
J581	1-507-863-31	(GX9ES)....JACK, LARGE TYPE (HEADPHONES)	
J581	1-507-863-41	(GX10ES)....JACK, LARGE TYPE (HEADPHONES)	
RV301	1-238-143-11	RES, VAR, CARBON 120K/120K (WITH M301) (VOLUME)	
RV382	1-238-140-11	RES, VAR, CARBON 20K/20K (BASS)	
RV383	1-238-141-11	RES, VAR, CARBON 20K/20K (MID)	
RV384	1-238-141-11	RES, VAR, CARBON 20K/20K (TREBLE)	
RV385	1-238-142-11	RES, VAR, CARBON 20K/20K (BALANCE)	
S381	1-571-499-11	SWITCH, PUSH (2 KEY) (SUBSONIC FILTER, LOUNDNESS)	
S383	1-571-498-11	SWITCH, ROTARY (MODE)	
S384	1-571-500-11	SWITCH, PUSH (1 KEY) (TURNOVER 200/400Hz)	
S385	1-571-500-11	SWITCH, PUSH (1 KEY) (TURNOVER 3K/6KHz)	
S386	1-571-496-11	SWITCH, ROTARY (REC OUT SELECTOR)	
S401	1-570-029-11	SWITCH, PUSH (1KEY) (CARTRIDGE)	
S581-2	1-571-497-11	SWITCH, ROTARY (REMOTE) (SPEAKERS)	
S901	1-571-241-11	SWITCH, PUSH (1KEY) (POWER)	

4-3. BACK PANEL SECTION

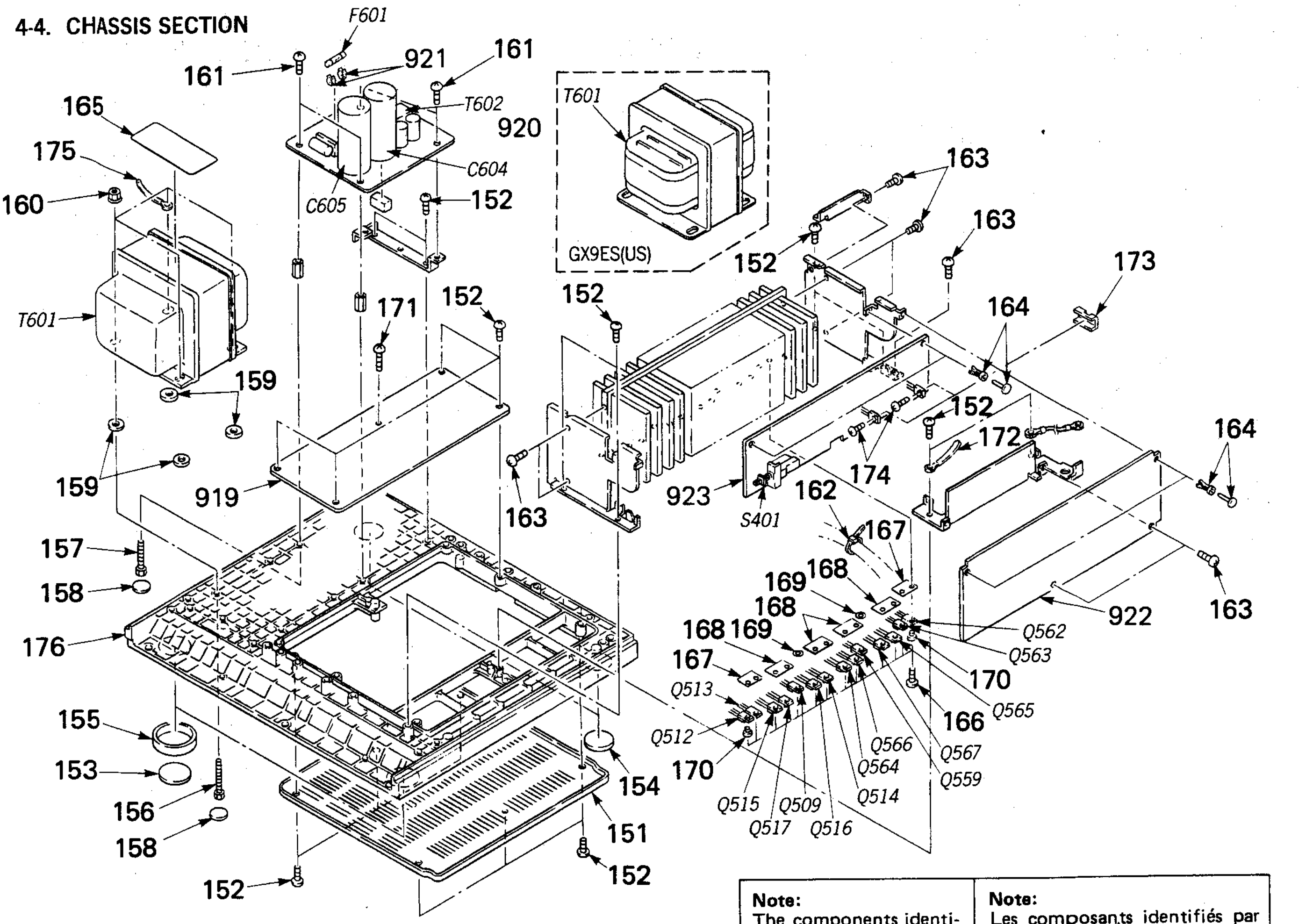


Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remarks
101	*4-908-861-31	(GX9ES : US)....BRACKET, EQ	
101	*4-908-861-41	(GX10ES)....BRACKET, EQ	
102	7-682-547-09	SCREW +BV 3X6, S TIGHT	
103	7-682-547-09	SCREW +BVTT 3X6 (S)	
104	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT	
105	4-887-711-21	SCREW, TERMINAL, CLAW, + BVTP	
106	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
107	*4-924-961-01	PROTECTOR	
108	*4-908-019-01	HOLDER (A), ANTENNA	
109	4-916-783-01	BUSHING, CORD	
110	*4-835-639-00	PLATE, GROUND	
111	4-924-951-01	(GX9ES : US)....PANEL, BACK	
111	*4-924-951-11	(GX10ES)....PANEL, BACK	
112	7-685-876-09	SCREW +BVTT 3X16 (S)	
113	7-685-153-19	SCREW +P 3X30 TYPE2 SLIT	
114	7-682-549-09	SCREW +B 3X10	
909	*1-626-765-11	PC BOARD, HEADPHONE JACK	
910	*1-626-764-11	PC BOARD, SPEAKER TERMINAL	
911	*1-626-767-11	PC BOARD, VIDEO JACK	
912	*1-626-763-11	PC BOARD, VIDEO AMPLIFIER	
913	*1-626-761-11	PC BOARD, ANTENNA TERMINAL	
914	*1-626-766-11	PC BOARD, INPUT	
915	*1-626-770-11	PC BOARD, TRANSLATION (B)	
916	*1-626-769-11	PC BOARD, TRANSLATION (A)	

Ref.No	Part No.	Description	Remarks
917	⚠1-559-479-11	CORD, POWER	
924	1-536-767-31	TERMINAL BOARD, SPEAKER	
925	1-535-691-11	TERMINAL	
CNJ601	⚠1-526-883-00	OUTLET, AC	
CNJ903	1-559-959-11	CORD (WITH CONNECTOR)	
J201	1-507-914-11	JACK, PIN 6P (ADAPTOR IN/PRE OUT)	
J202	1-507-914-11	(GX9ES)....JACK, PIN 6P (PHONO/CD/AUX)	
J202	1-563-022-21	(GX10ES)....JACK, PIN 6P (PHONO/CD/AUX)	
J203	1-507-734-00	JACK, PIN 4P (DAT IN/REC OUT)	
J204	1-507-910-11	JACK, PIN 4P (TAPE RECORDER IN/OUT)	
J205	1-507-910-11	JACK, PIN 4P (VIDEO 1 AUDIO IN/OUT)	
J206	1-507-910-11	JACK, PIN 4P (VIDEO 2 AUDIO IN/OUT)	
J701	1-562-999-31	JACK, PIN 2P (MONITOR VIDEO OUT/VIDEO 1 VIDEO IN)	
J702	1-562-999-31	JACK, PIN 2P (VIDEO1 VIDEO OUT/VIDEO2 VIDEO IN)	
J703	1-565-406-31	JACK, PIN 1P (V3/CDV VIDEO IN)	
J704	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIEDO 1 S VIDEO IN)	
J705	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 1 S VIDEO OUT)	
J706	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 2 S VIDEO IN)	
J708	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO S VIDEO OUT)	
S581-1	1-570-897-11	SWITCH, SLIDE (REMOTE) (SPEAKERS)	
TM901	1-537-136-11	TERMINAL BOARD (ANT)	

4-4. CHASSIS SECTION


F601
161
921
161
165
T602
920
175
C604
160
C605
152
T601
GX9ES(US)
163
163
152
173
T601
171
152
152
164
159
152
172
164
159
919
174
923
162
163
S401
167
157
169
168
158
168
922
163
168
169
Q562
176
167
Q563
Q513
170
166
Q565
155
Q512
Q566
Q567
153
170
Q564
154
Q559
Q514
156
Q515
Q509
151
158
Q517
Q516
152
152

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remarks
151	*4-921-428-01	PLATE, BOTTOM	
152	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
153	4-924-963-01	FOOT	
154	4-924-963-11	FOOT	
155	4-916-703-01	(GX10ES)....RING, FOOT ORNAMENTAL	
156	7-683-333-07	BOLT,HEXAGON 4X40	
157	7-683-329-07	BOLT,HEXAGON 4X30	
158	*4-908-892-01	SPACER	
159	*4-916-751-01	WASHER	
160	4-908-881-01	NUT (M4), FLANGE	
161	4-886-821-01	SCREW, S TIGHT, +PTTWH 3X6	
162	3-655-653-21	BAND (TAITON), BINDING	
163	7-682-547-09	SCREW +BVTT 3X6 (S)	
164	4-812-134-00	RIVET NYLON, 3.5	
165	*4-908-885-01	(GX10ES)....LABEL, TRANSFORMER	
166	7-682-549-09	SCREW +B 3X10	
167	*4-924-957-01	SHEET, INSULATING	
168	*4-924-958-01	SHEET, INSULATING	
169	3-572-365-01	SHEET (A), INSULATING	
170	2-371-561-00	BUSHING (P), INSULATING	
171	7-685-648-79	SCREW +BVTP 3X12 TYPE2 SLIT	
172	*4-908-882-01	CLAMP	
173	*4-861-002-00	HEAT SINK	
174	7-682-548-09	SCREW B 3X8	
175	*4-908-882-11	CLAMP	
176	4-908-876-01	CHASSIS, MAIN	
919	*A-4358-204-A	MOUNTED PCB, MAIN	
920	*1-626-762-11	PC BOARD, POWER	
921	*1-533-185-11	HOLDER, FUSE	
922	*A-4351-666-A	MOUNTED PCB, TUNER	
923	*A-4358-205-A	MOUNTED PCB, EQ	

Ref.No	Part No.	Description	Remarks
C604	1-125-524-11	(GX10ES)....CAP, ELECT 12000MF 80V	
C604	1-125-525-11	(GX9ES : US)....CAP, ELECT 10000MF 80V	
C605	1-125-524-11	(GX10ES)....CAP, ELECT 12000MF 80V	
C605	1-125-525-11	(GX9ES : US)....CAP, ELECT 10000MF 80V	
F601	⚠1-532-510-00	FUSE, GLASS TUBE 8A 125V	
Q509	8-729-180-92	TRANSISTOR 2SD809-K	
Q512	8-729-127-53	TRANSISTOR 2SC2275-P	
Q513	8-729-118-53	TRANSISTOR 2SA985-P	
Q514	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856	
Q514	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SC2837	
Q515	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492	
Q515	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186	
Q516	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856	
Q516	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SC2837	
Q517	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492	
Q517	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186	
Q559	8-729-180-92	TRANSISTOR 2SD809-K	
Q562	8-729-127-53	TRANSISTOR 2SC2275-P	
Q563	8-729-118-53	TRANSISTOR 2SA985-P	
Q564	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856	
Q564	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SC2837	
Q565	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492	
Q565	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186	
Q566	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856	
Q566	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SC2837	
Q567	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492	
Q567	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186	
T601	⚠1-449-243-11	(GX10ES)....TRANSFORMER, POWER	
T601	⚠1-449-245-11	(GX9ES : US)....TRANSFORMER, POWER	
T602	⚠1-449-244-11	TRANSFORMER, POWER	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
901	*1-626-750-11	PC BOARD, DISPLAY (A)
902	*1-626-751-11	PC BOARD, DISPLAY (B)
903	*A-4375-387-A	MOUNTED PCB, MICRO COMPUTER
904	*A-4410-772-A	MOUNTED PCB, TONE
905	*1-626-759-11	PC BOARD, LED
906	*1-626-753-11	PC BOARD, BALANCE VR
907	*1-626-754-11	PC BOARD, VOLUME
908	*1-626-760-11	PC BOARD, POWER SW
909	*1-626-765-11	PC BOARD, HEADPHONE JACK
910	*1-626-764-11	PC BOARD, SPEAKER TERMINAL
911	*1-626-767-11	PC BOARD, VIDEO JACK
912	*1-626-763-11	PC BOARD, VIDEO AMPLIFIER
913	*1-626-761-11	PC BOARD, ANTENNA TERMINAL
914	*1-626-766-11	PC BOARD, INPUT
915	*1-626-770-11	PC BOARD, TRANSLATION (B)
916	*1-626-769-11	PC BOARD, TRANSLATION (A)
917	⚠1-559-479-11	CORD, POWER
918	*1-626-752-11	PC BOARD, MOTOR
919	*A-4358-204-A	MOUNTED PCB, MAIN
920	*1-626-762-11	PC BOARD, POWER
921	1-533-185-11	HOLDER, FUSE
922	*A-4351-666-A	MOUNTED PCB, TUNER
923	*A-4358-205-A	MOUNTED PCB, EQ
924	1-536-767-31	TERMINAL BOARD, SPEAKER
925	1-535-691-11	TERMINAL
926	*1-626-758-11	PC BOARD, REMOTE CONTROL

CAPACITOR

Ref.No	Part No.	Description			
C001	1-162-198-31	CERAMIC	8.2PF	10%	50V
C002	1-162-195-31	CERAMIC	4.7PF	10%	50V
C003	1-161-379-00	CERAMIC	0.01MF	20%	16V
C004	1-162-196-31	CERAMIC	5.6PF	10%	50V
C005	1-162-197-31	CERAMIC	6.8PF	10%	50V
C006	1-162-196-31	CERAMIC	5.6PF	10%	50V
C008	1-162-203-31	CERAMIC	15PF	5%	50V
C009	1-162-190-31	CERAMIC	1.8PF	20%	50V
C010	1-162-282-31	CERAMIC	100PF	10%	50V
C011	1-101-005-00	CERAMIC	0.022MF		50V
C013	1-162-189-31	CERAMIC	1.5PF	20%	50V
C014	1-162-187-31	CERAMIC	1PF	20%	50V
C015	1-162-197-31	CERAMIC	6.8PF	10%	50V
C016	1-162-198-31	CERAMIC	8.2PF	10%	50V
C017	1-162-203-31	CERAMIC	15PF	5%	50V
C018	1-162-211-31	CERAMIC	33PF	5%	50V
C019	1-161-379-00	CERAMIC	0.01MF	20%	16V
C020	1-123-875-11	ELECT	10MF	20%	50V
C021	1-161-379-00	CERAMIC	0.01MF	20%	16V
C022	1-126-101-11	ELECT	100MF	20%	16V
C023	1-161-379-00	CERAMIC	0.01MF	20%	16V
C024	1-161-379-00	CERAMIC	0.01MF	20%	16V
C025	1-161-379-00	CERAMIC	0.01MF	20%	16V
C026	1-161-379-00	CERAMIC	0.01MF	20%	16V
C027	1-161-379-00	CERAMIC	0.01MF	20%	16V
C028	1-161-379-00	CERAMIC	0.01MF	20%	16V
C029	1-161-379-00	CERAMIC	0.01MF	20%	16V
C030	1-124-902-00	ELECT	0.47MF	20%	50V
C031	1-161-379-00	CERAMIC	0.01MF	20%	16V
C032	1-161-379-00	CERAMIC	0.01MF	20%	16V
C033	1-124-120-11	ELECT	220MF	20%	16V
C034	1-161-379-00	CERAMIC	0.01MF	20%	16V
C035	1-161-379-00	CERAMIC	0.01MF	20%	16V
C036	1-161-379-00	CERAMIC	0.01MF	20%	16V
C037	1-161-379-00	CERAMIC	0.01MF	20%	16V
C038	1-161-379-00	CERAMIC	0.01MF	20%	16V
C039	1-123-875-11	ELECT	10MF	20%	50V
C040	1-161-379-00	CERAMIC	0.01MF	20%	16V
C041	1-123-875-11	ELECT	10MF	20%	50V
C042	1-162-286-31	CERAMIC	220PF	10%	50V
C043	1-162-286-31	CERAMIC	220PF	10%	50V
C044	1-162-211-31	CERAMIC	33PF	5%	50V
C045	1-124-443-00	ELECT	100MF	20%	10V
C046	1-110-341-91	MYLAR	330PF	5%	50V
C047	1-124-477-11	ELECT	47MF	20%	25V
C048	1-124-120-11	ELECT	220MF	20%	16V
C049	1-124-443-00	ELECT	100MF	20%	10V
C050	1-124-499-11	ELECT	1MF	20%	50V
C051	1-124-902-00	ELECT	0.47MF	20%	50V
C052	1-136-153-00	FILM	0.01MF	5%	50V
C053	1-136-153-00	FILM	0.01MF	5%	50V
C054	1-130-475-00	MYLAR	0.0022MF	5%	50V
C055	1-136-161-00	FILM	0.047MF	5%	50V
C056	1-124-902-00	ELECT	0.47MF	20%	50V
C057	1-124-499-11	ELECT	1MF	20%	50V
C058	1-124-499-11	ELECT	1MF	20%	50V
C059	1-124-499-11	ELECT	1MF	20%	50V
C060	1-130-469-00	MYLAR	680PF	5%	50V
C061	1-130-469-00	MYLAR	680PF	5%	50V
C062	1-162-219-31	CERAMIC	68PF	5%	50V
C063	1-130-475-00	MYLAR	0.0022MF	5%	50V
C064	1-162-219-31	CERAMIC	68PF	5%	50V
C065	1-136-160-00	FILM	0.039MF	5%	50V
C066	1-136-160-00	FILM	0.039MF	5%	50V
C067	1-123-382-00	ELECT	3.3MF	20%	50V
C068	1-123-382-00	ELECT	3.3MF	20%	50V
C069	1-130-476-00	MYLAR	0.0027MF	5%	50V
C070	1-130-476-00	MYLAR	0.0027MF	5%	50V
C071	1-130-475-00	MYLAR	0.0022MF	5%	50V
C072	1-130-475-00	MYLAR	0.0022MF	5%	50V
C073	1-130-476-00	MYLAR	0.0027MF	5%	50V
C074	1-130-476-00	MYLAR	0.0027MF	5%	50V
C075	1-124-499-11	ELECT	1MF	20%	50V
C076	1-162-207-31	CERAMIC	22PF	5%	50V
C077	1-161-379-00	CERAMIC	0.01MF	20%	16V
C078	1-124-927-11	ELECT	4.7MF	20%	50V

Ref.No	Part No.	Description			
C079	1-124-499-11	ELECT	1MF	20%	50V
C080	1-161-379-00	CERAMIC	0.01MF	20%	16V
C081	1-124-499-11	ELECT	1MF	20%	50V
C082	1-123-382-00	ELECT	3.3MF	20%	50V
C083	1-162-294-31	CERAMIC	0.001MF	10%	50V
C084	1-124-477-11	ELECT	47MF	20%	25V
C085	1-161-379-00	CERAMIC	0.01MF	20%	16V
C086	1-161-379-00	CERAMIC	0.01MF	20%	16V
C087	1-161-379-00	CERAMIC	0.01MF	20%	16V
C088	1-161-379-00	CERAMIC	0.01MF	20%	16V
C089	1-161-379-00	CERAMIC	0.01MF	20%	16V
C090	1-124-477-11	ELECT	47MF	20%	25V
C091	1-161-379-00	CERAMIC	0.01MF	20%	16V
C092	1-136-165-00	FILM	0.1MF	5%	50V
C093	1-162-282-31	CERAMIC	100PF	10%	50V
C094	1-130-480-00	MYLAR	0.0056MF	5%	50V
C095	1-162-282-31	CERAMIC	100PF	10%	50V
C096	1-130-480-00	MYLAR	0.0056MF	5%	50V
C097	1-162-286-31	CERAMIC	220PF	10%	50V
C098	1-124-499-11	ELECT	1MF	20%	50V
C099	1-124-254-00	ELECT	0.68MF	20%	50V
C101	1-123-382-00	ELECT	3.3MF	20%	50V
C102	1-123-875-11	ELECT	10MF	20%	50V
C103	1-124-122-11	ELECT	100MF	20%	35V
C104	1-162-290-31	CERAMIC	470PF	10%	50V
C105	1-161-379-00	CERAMIC	0.01MF	20%	16V
C107	1-102-959-00	CERAMIC	22PF	5%	50V
C108	1-102-959-00	CERAMIC	22PF	5%	50V
C109	1-161-379-00	CERAMIC	0.01MF	20%	16V
C110	1-162-294-31	CERAMIC	0.001MF	10%	50V
C111	1-161-379-00	CERAMIC	0.01MF	20%	16V
C112	1-123-875-11	ELECT	10MF	20%	50V
C113	1-161-379-00	CERAMIC	0.01MF	20%	16V
C114	1-124-477-11	ELECT	47MF	20%	25V
C115	1-124-477-11	ELECT	47MF	20%	25V
C116	1-124-477-11	ELECT	47MF	20%	25V
C117	1-161-379-00	CERAMIC	0.01MF	20%	16V
C118	1-101-005-00	CERAMIC	0.022MF		50V
C119	1-124-925-11	ELECT	2.2MF	20%	50V
C120	1-124-925-11	ELECT	2.2MF	20%	50V
C121	1-130-475-00	MYLAR	0.0022MF	5%	50V
C122	1-124-499-11	ELECT	1MF	20%	50V
C123	1-124-499-11	ELECT	1MF	20%	50V
C124	1-161-379-00	CERAMIC	0.01MF	20%	16V
C201	1-162-282-31	CERAMIC	100PF	10%	50V
C202	1-162-282-31	CERAMIC	100PF	10%	50V
C203	1-162-282-31	CERAMIC	100PF	10%	50V
C204	1-162-282-31	CERAMIC	100PF	10%	50V
C205	1-124-589-11	ELECT	47MF	20%	16V
C206	1-124-589-11	ELECT	47MF	20%	16V
C301	1-110-341-91	MYLAR	330PF	5%	50V
C302	1-136-158-00	FILM	0.027MF	5%	50V
C303	1-136-162-00	FILM	0.056MF	5%	50V
C304	1-124-499-11	ELECT	1MF	20%	50V
C305	1-124-927-11	ELECT	4.7MF	20%	50V
C306	1-124-477-11	ELECT	47MF	20%	25V
C307	1-110-335-11	MYLAR	100PF	5%	50V
C308	1-136-164-00	FILM	0.082MF	5%	50V
C309	1-136-164-00	FILM	0.082MF	5%	50V
C310	1-136-156-00	FILM	0.018MF	5%	50V
C311	1-136-156-00	FILM	0.018MF	5%	50V
C312	1-136-174-00	FILM	0.56MF	5%	50V
C313	1-136-156-00	FILM	0.018MF	5%	50V
C341	1-110-341-91	MYLAR	330PF	5%	50V
C342	1-136-158-00	FILM	0.027MF	5%	50V

Ref.No	Part No.	Description			
C343	1-136-162-00	FILM	0.056MF	5%	50V
C344	1-124-499-11	ELECT	1MF	20%	50V
C345	1-124-927-11	ELECT	4.7MF	20%	50V
C346	1-124-477-11	ELECT	47MF	20%	25V
C347	1-110-335-11	MYLAR	100PF	5%	50V
C348	1-136-164-00	FILM	0.082MF	5%	50V
C349	1-136-164-00	FILM	0.082MF	5%	50V
C350	1-136-156-00	FILM	0.018MF	5%	50V
C351	1-136-156-00	FILM	0.018MF	5%	50V
C352	1-136-174-00	FILM	0.56MF	5%	50V
C353	1-136-156-00	FILM	0.018MF	5%	50V
C381	1-124-478-11	ELECT	100MF	20%	25V
C382	1-124-478-11	ELECT	100MF	20%	25V
C383	1-124-908-11	ELECT	22MF	20%	25V
C384	1-124-908-11	ELECT	22MF	20%	25V
C385	1-124-908-11	ELECT	22MF	20%	25V
C401	1-110-341-91	MYLAR	330PF	5%	50V
C402	1-124-927-11	ELECT	4.7MF	20%	50V
C403	1-130-479-00	MYLAR	0.0047MF	5%	50V
C404	1-126-101-11	ELECT	100MF	20%	16V
C405	1-123-382-00	ELECT	3.3MF	20%	50V
C406	1-130-471-00	MYLAR	0.001MF	5%	50V
C407	1-136-155-00	FILM	0.015MF	5%	50V
C408	1-136-162-00	FILM	0.056MF	5%	50V
C441	1-110-341-91	MYLAR	330PF	5%	50V
C442	1-124-927-11	ELECT	4.7MF	20%	50V
C443	1-130-479-00	MYLAR	0.0047MF	5%	50V
C444	1-126-101-11	ELECT	100MF	20%	16V
C445	1-123-382-00	ELECT	3.3MF	20%	50V
C446	1-130-471-00	MYLAR	0.001MF	5%	50V
C447	1-136-155-00	FILM	0.015MF	5%	50V
C448	1-136-162-00	FILM	0.056MF	5%	50V
C481	1-126-176-11	ELECT	220MF	20%	10V
C482	1-126-103-11	ELECT	470MF	20%	16V
C483	1-126-103-11	ELECT	470MF	20%	16V
C502	1-110-339-91	MYLAR	220PF	5%	50V
C503	1-124-499-11	ELECT	1MF	20%	50V
C504	1-107-276-11	MICA	3PF	0.5PF	100V
C505	1-126-101-11	ELECT	100MF	20%	16V
C506	1-126-101-11	ELECT	100MF	20%	16V
C507	1-126-101-11	ELECT	100MF	20%	16V
C508	1-126-101-11	ELECT	100MF	20%	16V
C509	1-123-332-00	ELECT	47MF	20%	25V
C510	1-107-210-00	MICA	22PF	5%	100V
C511	1-107-159-00	MICA	33PF	5%	100V
C512	1-107-159-00	MICA	33PF	5%	100V
C513	1-136-161-00	FILM	0.047MF	5%	50V
C518	1-136-161-00	FILM	0.047MF	5%	50V
C552	1-110-339-91	MYLAR	220PF	5%	50V
C553	1-124-499-11	ELECT	1MF	20%	50V
C554	1-107-276-11	MICA	3PF	0.5PF	100V
C555	1-126-101-11	ELECT	100MF	20%	16V
C556	1-126-101-11	ELECT	100MF	20%	16V
C557	1-126-101-11	ELECT	100MF	20%	16V
C558	1-126-101-11	ELECT	100MF	20%	16V
C559	1-123-332-00	ELECT	47MF	20%	25V
C560	1-107-210-00	MICA	22PF	5%	100V
C561	1-107-159-00	MICA	33PF	5%	100V
C562	1-107-159-00	MICA	33PF	5%	100V
C563	1-136-161-00	FILM	0.047MF	5%	50V
C568	1-136-161-00	FILM	0.047MF	5%	50V
C601	⚠1-161-744-00	CERAMIC	0.01MF		400V
C602	1-136-187-11	FILM	0.047MF	5%	250V
C603	1-124-563-11	ELECT	2200MF	20%	25V
C604	1-125-524-11	(GX10ES)....ELECT	12000MF		80V

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description			
C604	1-125-525-11	(GX9ES : US)....ELECT	10000MF		80V
C605	1-125-524-11	(GX10ES)....ELECT	12000MF		80V
C605	1-125-525-11	(GX9ES : US)....ELECT	10000MF		80V
C606	1-125-523-11	ELECT	2200MF	20%	80V
C607	1-125-523-11	ELECT	2200MF	20%	80V
C608	1-124-703-11	ELECT	2200MF	20%	25V
C609	1-124-703-11	ELECT	2200MF	20%	25V
C610	1-124-122-11	ELECT	100MF	20%	50V
C611	1-124-122-11	ELECT	100MF	20%	50V
C652	1-124-667-11	ELECT	10MF	20%	100V
C653	1-123-875-11	ELECT	10MF	20%	50V
C654	1-124-122-11	ELECT	100MF	20%	35V
C655	1-124-120-11	ELECT	220MF	20%	16V
C656	1-124-120-11	ELECT	220MF	20%	16V
C659	1-124-478-11	ELECT	100MF	20%	25V
C660	1-124-478-11	ELECT	100MF	20%	25V
C661	1-124-477-11	ELECT	47MF	20%	25V
C662	1-124-477-11	ELECT	47MF	20%	25V
C663	1-124-120-11	ELECT	220MF	20%	16V
C664	1-124-120-11	ELECT	220MF	20%	16V
C665	1-126-101-11	ELECT	100MF	20%	16V
C666	1-126-101-11	ELECT	100MF	20%	16V
C667	1-124-120-11	ELECT	220MF	20%	16V
C668	1-124-120-11	ELECT	220MF	20%	16V
C701	1-124-477-11	ELECT	47MF	20%	25V
C702	1-124-559-51	ELECT	1000MF	20%	10V
C703	1-124-477-11	ELECT	47MF	20%	25V
C705	1-124-477-11	ELECT	47MF	20%	25V
C706	1-124-559-51	ELECT	1000MF	20%	10V
C707	1-124-477-11	ELECT	47MF	20%	25V
C709	1-124-477-11	ELECT	47MF	20%	25V
C710	1-161-379-00	CERAMIC	0.01MF	20%	16V
C731	1-124-477-11	ELECT	47MF	20%	25V
C732	1-124-559-51	ELECT	1000MF	20%	10V
C733	1-124-477-11	ELECT	47MF	20%	25V
C735	1-124-559-51	ELECT	1000MF	20%	10V
C736	1-124-477-11	ELECT	47MF	20%	25V
C737	1-124-477-11	ELECT	47MF	20%	25V
C761	1-124-477-11	ELECT	47MF	20%	25V
C762	1-124-559-51	ELECT	1000MF	20%	10V
C763	1-124-477-11	ELECT	47MF	20%	25V
C765	1-124-559-51	ELECT	1000MF	20%	10V
C766	1-124-477-11	ELECT	47MF	20%	25V
C767	1-124-477-11	ELECT	47MF	20%	25V
C773	1-161-379-00	CERAMIC	0.01MF	20%	16V
C791	1-123-875-11	ELECT	10MF	20%	50V
C792	1-161-379-00	CERAMIC	0.01MF	20%	16V
C793	1-161-379-00	CERAMIC	0.01MF	20%	16V
C794	1-123-875-11	ELECT	10MF	20%	50V
C795	1-123-875-11	ELECT	10MF	20%	50V
C796	1-161-379-00	CERAMIC	0.01MF	20%	16V
C797	1-161-379-00	CERAMIC	0.01MF	20%	16V
C798	1-123-875-11	ELECT	10MF	20%	50V
C801	1-124-499-11	ELECT	1MF	20%	50V
C802	1-124-604-00	ELECT	330MF	20%	10V
C803	1-130-471-00	MYLAR	0.001MF	5%	50V
C804	1-123-875-11	ELECT	10MF	20%	50V
C805	1-124-908-11	ELECT	22MF	20%	25V
C901	1-124-908-11	ELECT	22MF	20%	25V
C902	1-124-477-11	ELECT	47MF	20%	16V
C903	1-123-875-11	ELECT	10MF	20%	50V
C904	1-124-927-11	ELECT	4.7MF	20%	50V
C905	1-126-176-11	ELECT	220MF	20%	10V
C907	1-124-902-00	ELECT	0.47MF	20%	50V
C908	1-124-927-11	ELECT	4.7MF	20%	50V

Ref.No	Part No.	Description			
C910	1-125-444-11	CAP DOUBLE LAYERS	0.1F		5.5V
C911	1-124-925-11	ELECT	2.2MF	20%	50V
C912	1-161-379-00	CERAMIC	0.01MF	30%	16V
C913	1-124-499-11	ELECT	1MF	20%	50V
C914	1-124-443-00	ELECT	100MF	20%	6.3V
C915	1-124-443-00	ELECT	100MF	20%	6.3V
C916	1-124-927-11	ELECT	4.7MF	20%	50V
C917	1-124-927-11	ELECT	4.7MF	20%	50V
C918	1-124-471-00	ELECT	1000MF	20%	6.3V
C919	1-123-875-11	ELECT	10MF	20%	50V
C920	1-162-286-31	CERAMIC	220PF	10%	50V
C922	1-124-477-11	ELECT	47MF	20%	16V
C923	1-124-910-11	ELECT	47MF	20%	50V
C924	1-124-477-11	ELECT	47MF	20%	16V
C926	1-124-927-11	ELECT	4.7MF	20%	50V
C927	1-161-379-00	CERAMIC	0.01MF	30%	16V
C928	1-123-875-11	ELECT	10MF	20%	50V
C930	1-161-379-00	CERAMIC	0.01MF	30%	16V
C931	1-161-379-00	CERAMIC	0.01MF	30%	16V
C932	1-161-379-00	CERAMIC	0.01MF	30%	16V
C933	1-162-294-31	CERAMIC	0.001MF	10%	50V
C934	1-162-290-31	CERAMIC	470PF	10%	50V
C935	1-162-294-31	CERAMIC	0.001MF	10%	50V
C936	1-162-294-31	CERAMIC	0.001MF	10%	50V
C938	1-162-294-31	CERAMIC	0.001MF	10%	50V
C941	1-162-294-31	CERAMIC	0.001MF	10%	50V
C942	1-162-294-31	CERAMIC	0.001MF	10%	50V
C943	1-162-294-31	CERAMIC	0.001MF	10%	50V
C944	1-162-294-31	CERAMIC	0.001MF	10%	50V
C945	1-162-294-31	CERAMIC	0.001MF	10%	50V
C947	1-162-294-31	CERAMIC	0.001MF	10%	50V
C948	1-162-294-31	CERAMIC	0.001MF	10%	50V
C949	1-162-294-31	CERAMIC	0.001MF	10%	50V
C950	1-162-294-31	CERAMIC	0.001MF	10%	50V
C951	1-124-234-00	ELECT	22MF	20%	16V
C952	1-161-379-00	CERAMIC	0.01MF	20%	16V
C953	1-161-379-00	CERAMIC	0.01MF	20%	16V
C954	1-162-294-31	CERAMIC	0.001MF	10%	50V
C955	1-162-294-31	CERAMIC	0.001MF	10%	50V
C956	1-162-294-31	CERAMIC	0.001MF	10%	50V
C957	1-162-294-31	CERAMIC	0.001MF	10%	50V
C960	1-162-294-31	CERAMIC	0.001MF	10%	50V
C961	1-162-294-31	CERAMIC	0.001MF	10%	50V
C962	1-162-294-31	CERAMIC	0.001MF	10%	50V
CF001	1-567-393-11	FILTER, CERAMIC			
CF002	1-567-393-11	FILTER, CERAMIC			
CF003	1-567-393-11	FILTER, CERAMIC			
CF004	1-567-393-11	FILTER, CERAMIC			
CF005	1-527-981-00	FILTER, CERAMIC			
CF006	1-567-250-11	OSCILLATOR, CERAMIC			
CN1	*1-535-141-00	BASE POST 22MM (10MM PITCH) 4P			
CN2	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P			
CN3	*1-535-141-00	BASE POST 22MM (10MM PITCH) 4P			
CNJ601⚠	1-526-883-00	OUTLET, AC			
CNJ903	1-559-959-11	CORD (WITH CONNECTOR)			
CNP280	*1-564-781-11	PIN, CONNECTOR 3P			
CNP281	*1-564-781-11	PIN, CONNECTOR 3P			
CNP282	*1-564-782-11	PIN, CONNECTOR 4P			
CNP283	*1-564-782-11	PIN, CONNECTOR 4P			
CNP284	*1-564-781-11	PIN, CONNECTOR 3P			
CNP285	*1-564-781-11	PIN, CONNECTOR 3P			
CNP901	*1-564-782-11	PIN, CONNECTOR 4P			
CNP903	*1-560-603-00	PIN, CONNECTOR 4P			

Note:	Note:
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Ref.No	Part No.	Description
CP901	1-232-942-11	COMPOSITION CIRCUIT BLOCK
CT001	1-141-304-21	TRIMAR, CERAMIC
D001	8-719-901-59	DIODE KV1320
D002	8-719-901-59	DIODE KV1320
D003	8-719-901-59	DIODE KV1320
D004	8-719-901-59	DIODE KV1320
D005	8-719-000-26	DIODE US1060M
D006	8-719-000-26	DIODE US1060M
D007	8-719-000-26	DIODE US1060M
D009	8-719-000-26	DIODE US1060M
D010	8-719-000-26	DIODE US1060M
D012	8-719-000-26	DIODE US1060M
D013	8-719-000-26	DIODE US1060M
D014	8-719-000-26	DIODE US1060M
D250	8-719-000-26	DIODE US1060M
D301	8-719-000-26	DIODE US1060M
D341	8-719-000-26	DIODE US1060M
D381	8-719-000-26	DIODE US1060M
D382	8-719-000-26	DIODE US1060M
D383	8-719-000-26	DIODE US1060M
D384	8-719-000-26	DIODE US1060M
D385	8-719-000-26	DIODE US1060M
D386	8-719-000-26	DIODE US1060M
D387	8-719-000-26	DIODE US1060M
D388	8-719-000-26	DIODE US1060M
D389	8-719-000-26	DIODE US1060M
D481	8-719-910-75	DIODE HZ7B2L
D482	8-719-910-25	DIODE HZ12B2L
D483	8-719-910-25	DIODE HZ12B2L
D501	8-719-910-82	DIODE HZ18-2L
D502	8-719-910-68	DIODE HZ6C2L
D503	8-719-000-26	DIODE US1060M
D504	8-719-000-26	DIODE US1060M
D505	8-719-300-03	DIODE SV-03
D506	8-719-000-26	DIODE US1060M
D507	8-719-000-26	DIODE US1060M
D508	8-719-000-26	DIODE US1060M
D509	8-719-000-26	DIODE US1060M
D551	8-719-910-82	DIODE HZ18-2L
D552	8-719-910-68	DIODE HZ6C2L
D553	8-719-000-26	DIODE US1060M
D554	8-719-000-26	DIODE US1060M
D555	8-719-300-03	DIODE SV-03
D556	8-719-000-26	DIODE US1060M
D557	8-719-000-26	DIODE US1060M
D558	8-719-000-26	DIODE US1060M
D559	8-719-000-26	DIODE US1060M
D601	8-719-302-38	DIODE RBV-602-01
D602	8-719-302-36	DIODE RBV-402-01
D603	8-719-302-92	DIODE RB-151LFB
D604	8-719-511-40	DIODE S1VB40
D605	8-719-000-26	DIODE US1060M
D606	8-719-904-87	DIODE EQA02-28A
D651	8-719-913-02	DIODE HZ30-2L
D652	8-719-910-52	DIODE HZ15-2L
D653	8-719-910-52	DIODE HZ15-2L
D654	8-719-910-52	DIODE HZ15-2L
D655	8-719-910-75	DIODE HZ7B2L
D656	8-719-910-75	DIODE HZ7B2L
D801	8-719-200-77	DIODE 10E2N
D802	8-719-200-77	DIODE 10E2N
D901	8-719-000-26	DIODE US1060M
D902	8-719-000-26	DIODE US1060M
D903	8-719-000-26	DIODE US1060M

Ref.No	Part No.	Description
D904	8-719-200-77	DIODE 10E2N
D905	8-719-000-26	DIODE US1060M
D906	8-719-000-26	DIODE US1060M
D907	8-719-000-26	DIODE US1060M
D908	8-719-000-26	DIODE US1060M
D909	8-719-000-26	DIODE US1060M
D910	8-719-000-26	DIODE US1060M
D911	8-719-000-26	DIODE US1060M
D912	8-719-000-26	DIODE US1060M
D913	8-719-000-26	DIODE US1060M
D914	8-719-000-26	DIODE US1060M
D915	8-719-000-26	DIODE US1060M
D916	8-719-000-26	DIODE US1060M
D917	8-719-000-26	DIODE US1060M
D918	8-719-000-26	DIODE US1060M
D919	8-719-000-26	DIODE US1060M
D920	8-719-000-26	DIODE US1060M
D921	8-719-000-26	DIODE US1060M
D922	8-719-000-26	DIODE US1060M
D923	8-719-000-26	DIODE US1060M
D924	8-719-000-26	DIODE US1060M
D925	8-719-303-00	DIODE SEL2510C
D927	8-719-000-26	DIODE US1060M
D929	8-719-000-26	DIODE US1060M
D930	8-719-200-77	DIODE 10E2N
D931	8-719-000-26	DIODE US1060M
D951	8-719-903-64	DIODE EQA02-10AB5
D952	8-719-301-52	DIODE SEL2810A-C
D953	8-719-301-52	DIODE SEL2810A-C
D954	8-719-301-52	DIODE SEL2810A-C
D955	8-719-302-07	DIODE SEL1810A
D956	8-719-302-07	DIODE SEL1810A
D957	8-719-302-07	DIODE SEL1810A
D958	8-719-303-00	DIODE SEL2510C
D959	8-719-303-00	DIODE SEL2510C
D960	8-719-303-00	DIODE SEL2510C
D961	8-719-303-00	DIODE SEL2510C
D962	8-719-303-00	DIODE SEL2510C
D963	8-719-303-00	DIODE SEL2510C
DR801	*1-564-340-00	PIN, CONNECTOR 6P
DR802	*1-564-337-31	PIN, CONNECTOR 3P
DR807	*1-564-341-71	PIN, CONNECTOR 7P
DR808	*1-564-340-00	PIN, CONNECTOR 6P
DR809	*1-564-337-00	PIN, CONNECTOR 3P
DR810	*1-564-338-00	PIN, CONNECTOR 4P
DR811	*1-564-337-00	PIN, CONNECTOR 3P
DR812	*1-564-500-11	PIN, CONNECTOR 7P
DR813	*1-564-500-11	PIN, CONNECTOR 7P
DR814	*1-564-500-11	PIN, CONNECTOR 7P
DR815	*1-564-499-11	PIN, CONNECTOR 6P
DR819	*1-564-337-21	PIN, CONNECTOR 3P
DR820	*1-564-341-11	PIN, CONNECTOR 7P
DR824	*1-564-338-00	PIN, CONNECTOR 4P
DR825	*1-564-336-00	PIN, CONNECTOR 2P
DR826	*1-564-337-00	PIN, CONNECTOR 3P
DR827	*1-564-337-00	PIN, CONNECTOR 3P
DR828	*1-564-340-00	PIN, CONNECTOR 6P
DR830	*1-564-339-00	PIN, CONNECTOR 5P
DR831	*1-564-338-00	PIN, CONNECTOR 4P
DR832	*1-564-339-21	PIN, CONNECTOR 5P
EH1A	*1-564-507-11	PLUG, CONNECTOR 4P
EH1B	*1-564-507-11	PLUG, CONNECTOR 4P
EH2A	*1-564-507-11	PLUG, CONNECTOR 4P
EH3	*1-564-505-31	PLUG, CONNECTOR 2P

Ref.No	Part No.	Description
EH4	*1-564-505-11	PLUG, CONNECTOR 2P
EH5	*1-564-505-11	PLUG, CONNECTOR 2P
EH10	*1-564-506-11	PLUG, CONNECTOR 3P
EH706	*1-564-505-11	PLUG, CONNECTOR 2P
F601	⚠1-532-510-00	FUSE, GLASS TUBE 8A 125V
FE001	1-235-936-11	ENCAPSULATED COMPONENT
FL901	1-519-454-11	INDICATOR TUBE, FLUORESCENT
IC001	8-759-812-35	IC LA1235
IC002	8-759-923-90	IC BA4560
IC003	8-759-812-45	IC LA1245
IC004	8-759-802-57	IC CXA1064S
IC005	8-757-925-20	IC CX7925B
IC281	8-759-805-13	IC LC7821
IC282	8-759-805-13	IC LC7821
IC283	8-759-805-14	IC LC7822
IC284	8-759-805-14	IC LC7822
IC285	8-759-805-13	IC LC7821
IC286	8-759-805-13	IC LC7821
IC381	8-759-923-90	IC BA4560
IC481	8-759-923-90	IC BA4560
IC701	8-759-240-52	IC M4052BP
IC702	8-759-240-52	IC M4052BP
IC703	8-759-601-41	IC M4053BP
IC801	8-759-111-68	IC UPC1237HA
IC901	8-759-141-78	IC UPD75108CW-140
IC902	8-759-604-35	IC M5F78M05
IC903	8-759-600-24	IC M54543L
IC904	8-759-802-61	IC LA5666
IC910	8-749-901-49	IC SBX1492-51
IC951	8-759-820-08	IC LC7570
IC952	8-759-820-08	IC LC7570
IC953	8-759-800-95	IC LB1493
IC954	8-759-901-45	IC SN74LS145N
IC955	9-987-364-01	IC BA829
IFT001	1-404-666-11	COIL, FM IFT
IFT002	1-404-669-11	COIL, DISCRIMINATOR
IFT003	1-404-485-00	COIL, DISCRIMINATOR (PRIMARY)
IFT004	1-404-486-00	COIL, DISCRIMINATOR(SECONDARY)
IFT005	1-404-713-11	TRANSFORMER, IF
J201	1-507-914-11	JACK, PIN 6P (ADAPTOR IN/PRE OUT)
J202	1-563-022-21	(GX10ES)....JACK, PIN 6P (PHONO/CD/AUX)
J202	1-507-914-11	(GX9ES)....JACK, PIN 6P (PHONO/CD/AUX)
J203	1-507-734-00	JACK, PIN 4P (DAT IN/REC OUT)
J204	1-507-910-11	JACK, PIN 4P (TAPE RECORDER IN/OUT)
J205	1-507-910-11	JACK, PIN 4P (VIDEO 1 AUDIO IN/OUT)
J206	1-507-910-11	JACK, PIN 4P (VIDEO 2 AUDIO IN/OUT)
J581	1-507-863-31	(GX9ES)....JACK, LARGE TYPE (HEADPHONES)
J581	1-507-863-41	(GX10ES)....JACK, LARGE TYPE (HEADPHONES)
J701	1-562-999-31	JACK, PIN 2P (MONITOR VIDEO OUT/VIDEO 1 VIDEO IN)
J702	1-562-999-31	JACK, PIN 2P (VIDEO 1 VIDEO OUT/VIDEO 2 VIDEO IN)
J703	1-565-406-31	JACK, PIN 1P (V3/CDV VIDEO IN)
J704	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 1 S VIDEO IN)
J705	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 1 S VIDEO OUT)
J706	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 2 S VIDEO IN)
J708	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (MONITOR S VIDEO OUT)
L001	1-402-240-11	COIL (ANT)
L002	1-426-249-11	COIL (RF)
L003	1-459-618-11	COIL
L004	1-459-647-11	COIL (WITH CORE)

Ref.No	Part No.	Description
L005	1-408-555-00	INDUCTOR 2.2UH
L006	1-408-562-00	INDUCTOR 8.2UH
L007	1-410-780-11	INDUCTOR 27MMH
L008	1-410-780-11	INDUCTOR 27MMH
L009	1-410-780-11	INDUCTOR 27MMH
L010	1-410-780-11	INDUCTOR 27MMH
L011	1-408-575-00	INDUCTOR 100UH
L012	1-408-575-00	INDUCTOR 100UH
L013	1-408-575-00	INDUCTOR 100UH
L014	1-408-555-00	INDUCTOR 2.2UH
L501	*1-420-872-00	COIL, AIR CORE 1UH
L551	*1-420-872-00	COIL, AIR CORE 1UH
L901	1-408-575-00	INDUCTOR 100UH
M301	1-238-143-11	RES, VAR, CARBON 120K/120K (WITH RV301) (VOLUME)
PH701A	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
PH701B	*1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P
PH702A	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
PH702B	*1-564-705-41	PIN, CONNECTOR (SMALL TYPE) 3P
PH703A	*1-564-705-41	PIN, CONNECTOR (SMALL TYPE) 3P
PH703B	*1-564-705-41	PIN, CONNECTOR (SMALL TYPE) 3P
PH704A	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
PH704B	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
PH705A	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
PH705B	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
PH706A	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
PH706B	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
PH708A	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P
PH708B	*1-564-706-31	PIN, CONNECTOR (SMALL TYPE) 4P
Q001	8-729-200-55	TRANSISTOR 2SK241-Y
Q002	8-729-304-38	TRANSISTOR 2SC3391
Q003	8-729-201-93	TRANSISTOR 2SC2995-O
Q004	8-729-201-93	TRANSISTOR 2SC2995-O
Q005	8-729-216-13	TRANSISTOR 2SK161-GR
Q006	8-729-216-13	TRANSISTOR 2SK161-GR
Q007	8-729-266-93	TRANSISTOR 2SC2669
Q008	8-729-266-93	TRANSISTOR 2SC2669
Q009	8-729-266-93	TRANSISTOR 2SC2669
Q010	8-729-266-93	TRANSISTOR 2SC2669
Q011	8-729-115-79	TRANSISTOR BA1A4M
Q012	8-729-224-62	TRANSISTOR 2SK246-GR
Q013	8-729-266-93	TRANSISTOR 2SC2669
Q014	8-729-266-93	TRANSISTOR 2SC2669
Q015	8-729-115-79	TRANSISTOR BA1A4M
Q016	8-729-115-79	TRANSISTOR BA1A4M
Q017	8-729-115-79	TRANSISTOR BA1A4M
Q018	8-729-115-79	TRANSISTOR BA1A4M
Q019	8-729-224-62	TRANSISTOR 2SK246-GR
Q020	8-729-224-62	TRANSISTOR 2SK246-GR
Q021	8-729-107-91	TRANSISTOR 2SC3622-L
Q022	8-729-107-91	TRANSISTOR 2SC3622-L
Q026	8-729-115-79	TRANSISTOR BA1A4M
Q027	8-729-115-79	TRANSISTOR BA1A4M
Q028	8-729-115-79	TRANSISTOR BA1A4M
Q031	8-729-904-39	TRANSISTOR DTC114TS
Q032	8-729-600-27	TRANSISTOR 2SC634SP
Q033	8-729-115-79	TRANSISTOR BA1A4M
Q034	8-729-115-15	TRANSISTOR BN1A4M
Q035	8-729-115-79	TRANSISTOR BA1A4M
Q036	8-729-600-27	TRANSISTOR 2SC634SP
Q037	8-729-203-05	TRANSISTOR 2SK30AGR33
Q250	8-729-600-27	TRANSISTOR 2SC634SP
Q301	8-729-107-98	TRANSISTOR 2SC3622A-L
Q302	8-729-600-27	TRANSISTOR 2SC634SP

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
Q341	8-729-107-98	TRANSISTOR 2SC3622A-L
Q342	8-729-600-27	TRANSISTOR 2SC634SP
Q381	8-729-600-27	TRANSISTOR 2SC634SP
Q382	8-729-600-27	TRANSISTOR 2SC634SP
Q401	8-729-184-53	TRANSISTOR 2SC1845-EA
Q402	8-729-184-53	TRANSISTOR 2SC1845-EA
Q441	8-729-184-53	TRANSISTOR 2SC1845-EA
Q442	8-729-184-53	TRANSISTOR 2SC1845-EA
Q501	8-729-203-21	TRANSISTOR 2SK389-GR
Q502	8-729-600-27	TRANSISTOR 2SC634SP
Q503	8-729-600-27	TRANSISTOR 2SC634SP
Q504	8-729-699-51	TRANSISTOR 2SA995
Q505	8-729-104-18	TRANSISTOR 2SC3514
Q506	8-729-173-37	TRANSISTOR 2SA733-P
Q507	8-729-104-91	TRANSISTOR 2SA1383
Q508	8-729-104-18	TRANSISTOR 2SC3514
Q509	8-729-180-92	TRANSISTOR 2SD809-K
Q510	8-729-104-18	TRANSISTOR 2SC3514
Q511	8-729-104-91	TRANSISTOR 2SA1383
Q512	8-729-127-53	TRANSISTOR 2SA2275-P
Q513	8-729-118-53	TRANSISTOR 2SA985-P
Q514	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856
Q514	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SA2837
Q515	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492
Q515	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186
Q516	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856
Q516	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SA2837
Q517	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492
Q517	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186
Q518	8-729-108-14	TRANSISTOR 2SA988-F
Q551	8-729-203-21	TRANSISTOR 2SK389-GR
Q552	8-729-600-27	TRANSISTOR 2SC634SP
Q553	8-729-600-27	TRANSISTOR 2SC634SP
Q554	8-729-699-51	TRANSISTOR 2SA995
Q555	8-729-104-18	TRANSISTOR 2SC3514
Q556	8-729-173-37	TRANSISTOR 2SA733-P
Q557	8-729-104-91	TRANSISTOR 2SA1383
Q558	8-729-104-18	TRANSISTOR 2SC3514
Q559	8-729-180-92	TRANSISTOR 2SD809-K
Q560	8-729-104-18	TRANSISTOR 2SC3514
Q561	8-729-104-91	TRANSISTOR 2SA1383
Q562	8-729-127-53	TRANSISTOR 2SA2275-P
Q563	8-729-118-53	TRANSISTOR 2SA985-P
Q564	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856
Q564	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SA2837
Q565	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492
Q565	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186
Q566	8-729-303-88	(GX10ES)....TRANSISTOR 2SC3856
Q566	8-729-383-73	(GX9ES : US)....TRANSISTOR 2SA2837
Q567	8-729-303-85	(GX10ES)....TRANSISTOR 2SA1492
Q567	8-729-318-63	(GX9ES : US)....TRANSISTOR 2SA1186
Q568	8-729-108-14	TRANSISTOR 2SA988-F
Q601	8-729-118-01	TRANSISTOR 2SB1116
Q602	8-729-600-27	TRANSISTOR 2SC634SP
Q651	8-729-117-43	TRANSISTOR 2SD774
Q652	8-729-188-23	TRANSISTOR 2SD882-P
Q653	8-729-177-43	TRANSISTOR 2SD774
Q654	8-729-103-43	TRANSISTOR 2SB734
Q655	8-729-177-43	TRANSISTOR 2SD774
Q656	8-729-177-23	TRANSISTOR 2SB772-P
Q701	8-729-178-55	TRANSISTOR 2SC2785-E
Q702	8-729-178-55	TRANSISTOR 2SC2785-E
Q703	8-729-178-55	TRANSISTOR 2SC2785-E
Q704	8-729-117-54	TRANSISTOR 2SA1175
Q705	8-729-117-54	TRANSISTOR 2SA1175

Ref.No	Part No.	Description
Q706	8-729-178-55	TRANSISTOR 2SC2785-E
Q731	8-729-178-55	TRANSISTOR 2SC2785-E
Q732	8-729-178-55	TRANSISTOR 2SC2785-E
Q733	8-729-178-55	TRANSISTOR 2SC2785-E
Q734	8-729-117-54	TRANSISTOR 2SA1175
Q735	8-729-117-54	TRANSISTOR 2SA1175
Q736	8-729-178-55	TRANSISTOR 2SC2785-E
Q761	8-729-178-55	TRANSISTOR 2SC2785-E
Q762	8-729-178-55	TRANSISTOR 2SC2785-E
Q763	8-729-178-55	TRANSISTOR 2SC2785-E
Q764	8-729-117-54	TRANSISTOR 2SA1175
Q765	8-729-117-54	TRANSISTOR 2SA1175
Q766	8-729-178-55	TRANSISTOR 2SC2785-E
Q801	8-729-600-27	TRANSISTOR 2SC634SP
Q802	8-729-103-43	TRANSISTOR 2SB734
Q901	8-729-600-27	TRANSISTOR 2SC634SP
Q902	8-729-115-79	TRANSISTOR BA1A4M
Q903	8-729-113-33	TRANSISTOR 2SB733-4
Q904	8-729-115-79	TRANSISTOR BA1A4M
Q905	8-729-115-15	TRANSISTOR BN1A4M
Q906	8-729-115-15	TRANSISTOR BN1A4M
Q907	8-729-115-79	TRANSISTOR BA1A4M
Q908	8-729-115-15	TRANSISTOR BN1A4M
Q909	8-729-115-15	TRANSISTOR BN1A4M
Q910	8-729-115-79	TRANSISTOR BA1A4M
Q911	8-729-115-79	TRANSISTOR BA1A4M
Q912	8-729-115-79	TRANSISTOR BA1A4M
Q913	8-729-115-15	TRANSISTOR BN1A4M
Q914	8-729-115-15	TRANSISTOR BN1A4M
Q915	8-729-600-27	TRANSISTOR 2SC634SP
Q916	8-729-600-27	TRANSISTOR 2SC634SP
Q918	8-729-600-27	TRANSISTOR 2SC634SP
Q919	8-729-115-15	TRANSISTOR BN1A4M
Q920	8-729-115-15	TRANSISTOR BN1A4M
Q921	8-729-115-15	TRANSISTOR BN1A4M
Q922	8-729-115-15	TRANSISTOR BN1A4M
Q923	8-729-115-79	TRANSISTOR BA1A4M
Q951	8-729-115-79	TRANSISTOR BA1A4M
Q952	8-729-115-15	TRANSISTOR BN1A4M
Q953	8-729-600-27	TRANSISTOR 2SC634SP
Q954	8-729-904-39	TRANSISTOR DTC114TS

RESISTOR

R001	1-249-437-11	CARBON	47K	5%	1/4W
R002	1-249-437-11	CARBON	47K	5%	1/4W
R003	1-249-401-11	CARBON	47	5%	1/4W
R004	1-249-411-11	CARBON	330	5%	1/4W
R005	1-249-437-11	CARBON	47K	5%	1/4W
R006	1-249-437-11	CARBON	47K	5%	1/4W
R007	1-247-903-00	CARBON	1M	5%	1/4W
R008	1-249-405-11	CARBON	100	5%	1/4W
R009	1-249-405-11	CARBON	100	5%	1/4W
R010	1-247-893-11	CARBON	390K	5%	1/4W
R012	1-249-437-11	CARBON	47K	5%	1/4W
R013	1-249-409-11	CARBON	220	5%	1/4W
R014	1-249-429-11	CARBON	10K	5%	1/4W
R015	1-249-428-11	CARBON	8.2K	5%	1/4W
R016	1-249-405-11	CARBON	100	5%	1/4W
R017	1-249-421-11	CARBON	2.2K	5%	1/4W
R018	1-249-437-11	CARBON	47K	5%	1/4W
R019	1-249-414-11	CARBON	560	5%	1/4W
R020	1-249-407-11	CARBON	150	5%	1/4W
R021	1-249-411-11	CARBON	330	5%	1/4W
R022	1-249-411-11	CARBON	330	5%	1/4W
R023	1-249-431-11	CARBON	15K	5%	1/4W

Ref.No	Part No.	Description				
R024	1-249-411-11	CARBON	330	5%	1/4W	
R025	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R026	1-249-410-11	CARBON	270	5%	1/4W	
R027	1-249-411-11	CARBON	330	5%	1/4W	
R028	1-249-434-11	CARBON	27K	5%	1/4W	
R029	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R030	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R031	1-249-431-11	CARBON	15K	5%	1/4W	
R032	1-249-411-11	CARBON	330	5%	1/4W	
R033	1-249-410-11	CARBON	270	5%	1/4W	
R034	1-249-411-11	CARBON	330	5%	1/4W	
R035	1-249-434-11	CARBON	27K	5%	1/4W	
R036	1-249-429-11	CARBON	10K	5%	1/4W	
R037	1-249-438-11	CARBON	56K	5%	1/4W	
R038	⚠1-247-701-11	CARBON	120	5%	1/4W	F
R039	1-249-437-11	CARBON	47K	5%	1/4W	
R040	1-249-441-11	CARBON	100K	5%	1/4W	
R041	1-249-411-11	CARBON	330	5%	1/4W	
R042	1-249-441-11	CARBON	100K	5%	1/4W	
R043	1-249-432-11	CARBON	18K	5%	1/4W	
R044	1-249-429-11	CARBON	10K	5%	1/4W	
R045	1-249-428-11	CARBON	8.2K	5%	1/4W	
R046	1-249-425-11	CARBON	4.7K	5%	1/4W	
R048	1-249-417-11	CARBON	1K	5%	1/4W	
R049	1-247-903-00	CARBON	1M	5%	1/4W	
R050	1-249-417-11	CARBON	1K	5%	1/4W	
R051	1-249-422-11	CARBON	2.7K	5%	1/4W	
R052	1-249-434-11	CARBON	27K	5%	1/4W	
R053	1-249-432-11	CARBON	18K	5%	1/4W	
R054	1-249-419-11	CARBON	1.5K	5%	1/4W	
R055	1-249-419-11	CARBON	1.5K	5%	1/4W	
R056	1-249-426-11	CARBON	5.6K	5%	1/4W	
R057	1-249-426-11	CARBON	5.6K	5%	1/4W	
R058	1-249-441-11	CARBON	100K	5%	1/4W	
R059	1-249-423-11	CARBON	3.3K	5%	1/4W	
R060	1-249-430-11	CARBON	12K	5%	1/4W	
R061	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R062	1-249-437-11	CARBON	47K	5%	1/4W	
R063	1-249-416-11	CARBON	820	5%	1/4W	
R064	1-249-429-11	CARBON	10K	5%	1/4W	
R065	1-247-848-11	CARBON	5.1K	5%	1/4W	
R066	1-249-399-11	CARBON	33	5%	1/4W	
R067	1-249-441-11	CARBON	100K	5%	1/4W	
R068	1-249-423-11	CARBON	3.3K	5%	1/4W	
R069	1-249-441-11	CARBON	100K	5%	1/4W	
R070	1-249-441-11	CARBON	100K	5%	1/4W	
R071	1-249-441-11	CARBON	100K	5%	1/4W	
R072	1-249-423-11	CARBON	3.3K	5%	1/4W	
R073	1-249-399-11	CARBON	33	5%	1/4W	
R074	1-249-433-11	CARBON	22K	5%	1/4W	
R075	1-249-433-11	CARBON	22K	5%	1/4W	
R076	1-247-903-00	CARBON	1M	5%	1/4W	
R077	1-247-903-00	CARBON	1M	5%	1/4W	
R078	1-249-433-11	CARBON	22K	5%	1/4W	
R079	1-249-433-11	CARBON	22K	5%	1/4W	
R080	1-249-417-11	CARBON	1K	5%	1/4W	
R081	1-249-429-11	CARBON	10K	5%	1/4W	
R082	1-249-419-11	CARBON	1.5K	5%	1/4W	
R083	1-249-424-11	CARBON	3.9K	5%	1/4W	
R084	1-249-404-00	CARBON	82	5%	1/4W	
R085	1-249-429-11	CARBON	10K	5%	1/4W	
R086	1-249-409-11	CARBON	220	5%	1/4W	
R087	1-249-429-11	CARBON	10K	5%	1/4W	
R088	1-249-413-11	CARBON	470	5%	1/4W	
R089	⚠1-247-702-81	CARBON	150	5%	1/4W	F

Ref.No	Part No.	Description				
R090	1-249-430-11	CARBON	12K	5%	1/4W	
R091	1-249-425-11	CARBON	4.7K	5%	1/4W	
R092	1-249-436-11	CARBON	39K	5%	1/4W	
R093	1-249-436-11	CARBON	39K	5%	1/4W	
R094	1-249-435-11	CARBON	33K	5%	1/4W	
R095	1-247-881-00	CARBON	120K	5%	1/4W	
R096	1-249-441-11	CARBON	100K	5%	1/4W	
R097	1-249-417-11	CARBON	1K	5%	1/4W	
R098	1-249-417-11	CARBON	1K	5%	1/4W	
R099	1-249-429-11	CARBON	10K	5%	1/4W	
R100	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R101	1-249-441-11	CARBON	100K	5%	1/4W	
R102	1-249-433-11	CARBON	22K	5%	1/4W	
R103	1-249-415-11	CARBON	680	5%	1/4W	
R104	1-249-425-11	CARBON	4.7K	5%	1/4W	
R105	1-249-425-11	CARBON	4.7K	5%	1/4W	
R106	1-249-419-11	CARBON	1.5K	5%	1/4W	
R107	1-249-427-11	CARBON	6.8K	5%	1/4W	
R108	1-249-420-11	CARBON	1.8K	5%	1/4W	
R109	1-249-411-11	CARBON	330	5%	1/4W	
R110	1-249-418-11	CARBON	1.2K	5%	1/4W	
R111	1-249-414-11	CARBON	560	5%	1/4W	
R112	⚠1-247-703-11	CARBON	180	5%	1/4W	F
R113	1-249-414-11	CARBON	560	5%	1/4W	
R114	1-249-429-11	CARBON	10K	5%	1/4W	
R115	1-249-429-11	CARBON	10K	5%	1/4W	
R116	1-249-429-11	CARBON	10K	5%	1/4W	
R119	⚠1-247-690-	CARBON	15	5%	1/4W	F
R120	1-249-429-11	CARBON	10K	5%	1/4W	
R121	1-249-417-11	CARBON	1K	5%	1/4W	
R122	1-249-434-11	CARBON	27K	5%	1/4W	
R123	1-249-437-11	CARBON	47K	5%	1/4W	
R124	1-249-437-11	CARBON	47K	5%	1/4W	
R125	1-249-437-11	CARBON	47K	5%	1/4W	
R126	1-249-437-11	CARBON	47K	5%	1/4W	
R127	1-249-437-11	CARBON	47K	5%	1/4W	
R128	1-249-425-11	CARBON	4.7K	5%	1/4W	
R129	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R201	1-249-417-11	CARBON	1K	5%	1/4W	
R202	1-247-903-00	CARBON	1M	5%	1/4W	
R203	1-249-405-11	CARBON	100	5%	1/4W	
R204	1-247-903-00	CARBON	1M	5%	1/4W	
R205	1-249-413-11	CARBON	470	5%	1/4W	
R206	1-249-405-11	CARBON	100	5%	1/4W	
R207	1-247-903-00	CARBON	1M	5%	1/4W	
R208	1-249-405-11	CARBON	100	5%	1/4W	
R209	1-247-903-00	CARBON	1M	5%	1/4W	
R210	1-249-417-11	CARBON	1K	5%	1/4W	
R211	1-247-903-00	CARBON	1M	5%	1/4W	
R212	1-249-405-11	CARBON	100	5%	1/4W	
R213	1-247-903-00	CARBON	1M	5%	1/4W	
R214	1-249-417-11	CARBON	1K	5%	1/4W	
R215	1-247-903-00	CARBON	1M	5%	1/4W	
R216	1-249-405-11	CARBON	100	5%	1/4W	
R217	1-247-903-00	CARBON	1M	5%	1/4W	
R218	1-249-417-11	CARBON	1K	5%	1/4W	
R219	1-247-903-00	CARBON	1M	5%	1/4W	
R220	1-249-405-11	CARBON	100	5%	1/4W	
R221	1-247-903-00	CARBON	1M	5%	1/4W	
R224	1-249-405-11	CARBON	100	5%	1/4W	
R225	1-247-903-00	CARBON	1M	5%	1/4W	
R226	1-249-405-11	CARBON	100	5%	1/4W	
R227	1-247-903-00	CARBON	1M	5%	1/4W	
R241	1-249-417-11	CARBON	1K	5%	1/4W	
R242	1-247-903-00	CARBON	1M	5%	1/4W	

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description				
R243	1-249-405-11	CARBON	100	5%	1/4W	
R244	1-247-903-00	CARBON	1M	5%	1/4W	
R245	1-249-413-11	CARBON	470	5%	1/4W	
R246	1-249-405-11	CARBON	100	5%	1/4W	
R247	1-247-903-00	CARBON	1M	5%	1/4W	
R248	1-249-405-11	CARBON	100	5%	1/4W	
R249	1-247-903-00	CARBON	1M	5%	1/4W	
R250	1-249-417-11	CARBON	1K	5%	1/4W	
R251	1-247-903-00	CARBON	1M	5%	1/4W	
R252	1-249-405-11	CARBON	100	5%	1/4W	
R253	1-247-903-00	CARBON	1M	5%	1/4W	
R254	1-249-417-11	CARBON	1K	5%	1/4W	
R255	1-247-903-00	CARBON	1M	5%	1/4W	
R256	1-249-405-11	CARBON	100	5%	1/4W	
R257	1-247-903-00	CARBON	1M	5%	1/4W	
R258	1-249-417-11	CARBON	1K	5%	1/4W	
R259	1-247-903-00	CARBON	1M	5%	1/4W	
R260	1-249-405-11	CARBON	100	5%	1/4W	
R261	1-247-903-00	CARBON	1M	5%	1/4W	
R264	1-249-405-11	CARBON	100	5%	1/4W	
R265	1-247-903-00	CARBON	1M	5%	1/4W	
R266	1-249-405-11	CARBON	100	5%	1/4W	
R267	1-247-903-00	CARBON	1M	5%	1/4W	
R281	1-249-425-11	CARBON	4.7K	5%	1/4W	
R282	1-249-404-00	CARBON	82	5%	1/4W	
R290	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R291	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R301	1-249-438-11	CARBON	56K	5%	1/4W	
R302	1-247-903-00	CARBON	1M	5%	1/4W	
R303	1-247-858-11	CARBON	13K	5%	1/4W	
R304	1-247-848-11	CARBON	5.1K	5%	1/4W	
R305	1-249-437-11	CARBON	47K	5%	1/4W	
R307	1-247-903-00	CARBON	1M	5%	1/4W	
R308	1-247-889-00	CARBON	270K	5%	1/4W	
R309	1-247-889-00	CARBON	270K	5%	1/4W	
R310	1-249-421-11	CARBON	2.2K	5%	1/4W	
R311	1-249-441-11	CARBON	100K	5%	1/4W	
R312	1-249-423-11	CARBON	3.3K	5%	1/4W	
R313	1-249-418-11	CARBON	1.2K	5%	1/4W	
R314	1-249-422-11	CARBON	2.7K	5%	1/4W	
R315	1-249-418-11	CARBON	1.2K	5%	1/4W	
R316	1-247-903-00	CARBON	1M	5%	1/4W	
R317	1-249-409-11	CARBON	220	5%	1/4W	
R318	1-247-903-00	CARBON	1M	5%	1/4W	
R319	1-249-409-11	CARBON	220	5%	1/4W	
R320	1-247-856-00	CARBON	11K	5%	1/4W	
R321	1-249-423-11	CARBON	3.3K	5%	1/4W	
R322	1-249-417-11	CARBON	1K	5%	1/4W	
R323	1-249-417-11	CARBON	1K	5%	1/4W	
R324	1-247-840-00	CARBON	2.4K	5%	1/4W	
R341	1-249-438-11	CARBON	56K	5%	1/4W	
R342	1-247-903-00	CARBON	1M	5%	1/4W	
R343	1-247-858-11	CARBON	13K	5%	1/4W	
R344	1-247-848-11	CARBON	5.1K	5%	1/4W	
R345	1-249-437-11	CARBON	47K	5%	1/4W	
R347	1-247-903-00	CARBON	1M	5%	1/4W	
R348	1-247-889-00	CARBON	270K	5%	1/4W	
R349	1-247-889-00	CARBON	270K	5%	1/4W	
R350	1-249-421-11	CARBON	2.2K	5%	1/4W	
R351	1-249-441-11	CARBON	100K	5%	1/4W	
R352	1-249-423-11	CARBON	3.3K	5%	1/4W	
R353	1-249-418-11	CARBON	1.2K	5%	1/4W	
R354	1-249-422-11	CARBON	2.7K	5%	1/4W	
R355	1-249-418-11	CARBON	1.2K	5%	1/4W	
R356	1-247-903-00	CARBON	1M	5%	1/4W	

Ref.No	Part No.	Description				
R357	1-249-409-11	CARBON	220	5%	1/4W	
R358	1-247-903-00	CARBON	1M	5%	1/4W	
R359	1-249-409-11	CARBON	220	5%	1/4W	
R360	1-247-856-00	CARBON	11K	5%	1/4W	
R361	1-249-423-11	CARBON	3.3K	5%	1/4W	
R362	1-249-417-11	CARBON	1K	5%	1/4W	
R363	1-249-417-11	CARBON	1K	5%	1/4W	
R364	1-247-840-00	CARBON	2.4K	5%	1/4W	
R381	1-249-425-11	CARBON	4.7K	5%	1/4W	
R382	1-249-425-11	CARBON	4.7K	5%	1/4W	
R383	1-249-404-00	CARBON	82	5%	1/4W	
R384	1-249-404-00	CARBON	82	5%	1/4W	
R385	1-249-425-11	CARBON	4.7K	5%	1/4W	
R386	1-249-437-11	CARBON	47K	5%	1/4W	
R387	1-249-425-11	CARBON	4.7K	5%	1/4W	
R388	1-249-437-11	CARBON	47K	5%	1/4W	
R401	1-247-872-11	CARBON	51K	5%	1/4W	
R402	1-249-411-11	CARBON	330	5%	1/4W	
R403	1-249-405-11	CARBON	100	5%	1/4W	
R404	1-247-903-00	CARBON	1M	5%	1/4W	
R405	1-249-417-11	CARBON	1K	5%	1/4W	
R406	1-249-417-11	CARBON	1K	5%	1/4W	
R407	1-249-429-11	CARBON	10K	5%	1/4W	
R408	1-249-391-11	CARBON	6.8	5%	1/4W	
R409	1-247-700-11	CARBON	100	5%	1/4W	
R410	1-249-405-11	CARBON	100	5%	1/4W	
R411	1-247-903-00	CARBON	1M	5%	1/4W	
R412	1-247-721-11	CARBON	4.7K	1%	1/4W	
R413	1-249-965-91	CARBON	56K	1%	1/4W	
R414	1-249-409-11	CARBON	220	5%	1/4W	
R441	1-247-872-11	CARBON	51K	5%	1/4W	
R442	1-249-411-11	CARBON	330	5%	1/4W	
R443	1-249-405-11	CARBON	100	5%	1/4W	
R444	1-247-903-00	CARBON	1M	5%	1/4W	
R445	1-249-417-11	CARBON	1K	5%	1/4W	
R446	1-249-417-11	CARBON	1K	5%	1/4W	
R447	1-249-429-11	CARBON	10K	5%	1/4W	
R448	1-249-391-11	CARBON	6.8	5%	1/4W	
R449	1-247-700-11	CARBON	100	5%	1/4W	
R450	1-249-405-11	CARBON	100	5%	1/4W	
R451	1-247-903-00	CARBON	1M	5%	1/4W	
R452	1-247-721-11	CARBON	4.7K	1%	1/4W	
R453	1-249-965-91	CARBON	56K	1%	1/4W	
R454	1-249-409-11	CARBON	220	5%	1/4W	
R481	1-249-419-11	CARBON	1.5K	5%	1/4W	
R482	1-249-409-11	CARBON	220	5%	1/4W	
R483	1-249-409-11	CARBON	220	5%	1/4W	
R501	1-247-903-00	CARBON	1M	5%	1/4W	
R502	1-249-417-11	CARBON	1K	5%	1/4W	
R503	1-249-409-11	CARBON	220	5%	1/4W	
R504	1-249-405-11	CARBON	100	5%	1/4W	
R505	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R506	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R507	1-247-903-00	CARBON	1M	5%	1/4W	
R508	1-249-421-11	CARBON	2.2K	5%	1/4W	
R509	1-249-419-11	CARBON	1.5K	5%	1/4W	
R510	⚠1-215-878-00	METAL OXIDE	33K	5%	1W	F
R511	1-249-425-11	CARBON	4.7K	5%	1/4W	
R512	⚠1-212-970-00	FUSIBLE	33	5%	1/2W	F
R513	⚠1-212-982-00	FUSIBLE	100	5%	1/2W	F
R514	1-247-701-11	CARBON	120	5%	1/4W	
R515	1-246-545-00	CARBON	1M	5%	1/4W	
R516	1-249-587-91	CARBON	30K	5%	1/4W	
R517	⚠1-247-710-81	CARBON	560	5%	1/4W	F
R518	⚠1-247-718-81	CARBON	2.7K	5%	1/4W	F

Note:	Note:
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Ref.No	Part No.	Description				
R519	⚠1-212-998-00	FUSIBLE	470	5%	1/2W	F
R520	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R521	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R522	⚠1-212-982-00	FUSIBLE	100	5%	1/2W	F
R523	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R524	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R525	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R526	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R527	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R528	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R529	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R530	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R531	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R532	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R533	⚠1-247-717-81	CARBON	2.2K	5%	1/4W	F
R534	1-247-891-00	CARBON	330K	5%	1/4W	
R535	1-249-431-11	CARBON	15K	5%	1/4W	
R536	⚠1-213-050-61	FUSIBLE	3.9	5%	1W	F
R537	1-247-727-11	CARBON	10	5%	1/2W	
R538	1-249-429-11	CARBON	10K	5%	1/4W	
R539	⚠1-216-431-11	METAL OXIDE	560	5%	1W	F
R540	⚠1-217-477-00	FUSIBLE	4.7	5%	1W	F
R551	1-247-903-00	CARBON	1M	5%	1/4W	
R552	1-249-417-11	CARBON	1K	5%	1/4W	
R553	1-249-409-11	CARBON	220	5%	1/4W	
R554	1-249-405-11	CARBON	100	5%	1/4W	
R555	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R556	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R557	1-247-903-00	CARBON	1M	5%	1/4W	
R558	1-249-421-11	CARBON	2.2K	5%	1/4W	
R559	1-249-419-11	CARBON	1.5K	5%	1/4W	
R560	⚠1-215-878-00	METAL OXIDE	33K	5%	1W	F
R561	1-249-425-11	CARBON	4.7K	5%	1/4W	
R562	⚠1-212-970-00	FUSIBLE	33	5%	1/2W	F
R563	⚠1-212-982-00	FUSIBLE	100	5%	1/2W	F
R564	1-247-701-11	CARBON	120	5%	1/4W	
R565	1-246-545-00	CARBON	1M	5%	1/4W	
R566	1-249-587-91	CARBON	30K	5%	1/4W	
R567	⚠1-247-710-81	CARBON	560	5%	1/4W	F
R568	⚠1-247-718-81	CARBON	2.7K	5%	1/4W	F
R569	⚠1-212-998-00	FUSIBLE	470	5%	1/2W	F
R570	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R571	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R572	⚠1-212-982-00	FUSIBLE	100	5%	1/2W	F
R573	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R574	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R575	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R576	⚠1-212-958-00	FUSIBLE	10	5%	1/2W	F
R577	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R578	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R579	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R580	⚠1-217-151-00	RES, METAL PLA	TE 0.22		2W	
R581	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R582	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R583	⚠1-247-717-81	CARBON	2.2K	5%	1/4W	F
R584	1-247-891-00	CARBON	330K	5%	1/4W	
R585	1-249-431-11	CARBON	15K	5%	1/4W	
R586	⚠1-213-050-61	FUSIBLE	3.9	5%	1W	F
R587	1-247-727-11	CARBON	10	5%	1/2W	
R588	1-249-429-11	CARBON	10K	5%	1/4W	
R589	⚠1-216-431-11	METAL OXIDE	560	5%	1W	F
R590	⚠1-217-477-00	FUSIBLE	4.7	5%	1W	F
R601	1-249-437-11	CARBON	47K	5%	1/4W	
R602	1-249-425-11	CARBON	4.7K	5%	1/4W	
R603	⚠1-215-869-11	METAL OXIDE	1K	5%	1W	F

Ref.No	Part No.	Description				
R604	1-247-747-11	CARBON	470	5%	1/2W	
R605	1-249-429-11	CARBON	10K	5%	1/4W	
R606	⚠1-202-725-00	SOLID	3.3M	10%	1/2W	
R610	⚠1-249-482-11	CARBON	4.7	5%	1/2W	F
R611	⚠1-249-482-11	CARBON	4.7	5%	1/2W	F
R612	⚠1-213-060-61	FUSIBLE	10	5%	1W	F
R613	⚠1-213-060-61	FUSIBLE	10	5%	1W	F
R651	⚠1-247-752-61	CARBON	1K	5%	1/2W	F
R652	⚠1-249-455-11	CARBON	4.7	5%	1/4W	F
R653	⚠1-249-455-11	CARBON	4.7	5%	1/4W	F
R654	1-249-425-11	CARBON	4.7K	5%	1/4W	
R655	1-249-421-11	CARBON	2.2K	5%	1/4W	
R656	1-249-417-11	CARBON	1K	5%	1/4W	
R657	1-249-417-11	CARBON	1K	5%	1/4W	
R658	⚠1-215-864-00	METAL OXIDE	150	5%	1W	F
R659	⚠1-215-885-00	METAL OXIDE	68	5%	2W	F
R660	1-249-419-11	CARBON	1.5K	5%	1/4W	
R661	1-249-419-11	CARBON	1.5K	5%	1/4W	
R701	1-247-804-11	CARBON	75	5%	1/4W	
R702	1-249-431-11	CARBON	15K	5%	1/4W	
R703	1-249-429-11	CARBON	10K	5%	1/4W	
R704	1-249-403-11	CARBON	68	5%	1/4W	
R705	1-247-804-11	CARBON	75	5%	1/4W	
R706	1-249-431-11	CARBON	15K	5%	1/4W	
R709	1-247-804-11	CARBON	75	5%	1/4W	
R710	1-249-431-11	CARBON	15K	5%	1/4W	
R711	1-249-429-11	CARBON	10K	5%	1/4W	
R712	1-249-403-11	CARBON	68	5%	1/4W	
R713	1-249-431-11	CARBON	15K	5%	1/4W	
R714	1-249-430-11	CARBON	12K	5%	1/4W	
R715	1-249-433-11	CARBON	22K	5%	1/4W	
R716	1-249-442-11	CARBON	510	5%	1/4W	
R717	1-249-421-11	CARBON	2.2K	5%	1/4W	
R718	1-249-423-11	CARBON	3.3K	5%	1/4W	
R719	1-247-844-11	CARBON	3.6K	5%	1/4W	
R720	1-249-405-11	CARBON	100	5%	1/4W	
R721	1-249-418-11	CARBON	1.2K	5%	1/4W	
R722	1-249-401-11	CARBON	47	5%	1/4W	
R723	1-249-431-11	CARBON	15K	5%	1/4W	
R724	1-249-431-11	CARBON	15K	5%	1/4W	
R725	1-249-437-11	CARBON	47K	5%	1/4W	
R726	1-249-409-11	CARBON	220	5%	1/4W	
R731	1-247-804-11	CARBON	75	5%	1/4W	
R732	1-249-431-11	CARBON	15K	5%	1/4W	
R733	1-249-429-11	CARBON	10K	5%	1/4W	
R734	1-249-403-11	CARBON	68	5%	1/4W	
R735	1-247-804-11	CARBON	75	5%	1/4W	
R736	1-249-431-11	CARBON	15K	5%	1/4W	
R739	1-249-429-11	CARBON	10K	5%	1/4W	
R740	1-249-403-11	CARBON	68	5%	1/4W	
R741	1-249-431-11	CARBON	15K	5%	1/4W	
R742	1-249-430-11	CARBON	12K	5%	1/4W	
R743	1-249-433-11	CARBON	22K	5%	1/4W	
R744	1-249-442-11	CARBON	510	5%	1/4W	
R745	1-249-421-11	CARBON	2.2K	5%	1/4W	
R746	1-249-423-11	CARBON	3.3K	5%	1/4W	
R747	1-247-844-11	CARBON	3.6K	5%	1/4W	
R748	1-249-418-11	CARBON	1.2K	5%	1/4W	
R749	1-249-405-11	CARBON	100	5%	1/4W	
R750	1-249-401-11	CARBON	47	5%	1/4W	
R751	1-249-431-11	CARBON	15K	5%	1/4W	
R752	1-249-431-11	CARBON	15K	5%	1/4W	
R753	1-249-437-11	CARBON	47K	5%	1/4W	
R754	1-249-409-11	CARBON	220	5%	1/4W	
R761	1-247-804-11	CARBON	75	5%	1/4W	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
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Ref.No	Part No.	Description				
R762	1-249-431-11	CARBON	15K	5%	1/4W	
R763	1-249-429-11	CARBON	10K	5%	1/4W	
R764	1-249-403-11	CARBON	68	5%	1/4W	
R765	1-247-804-11	CARBON	75	5%	1/4W	
R766	1-249-431-11	CARBON	15K	5%	1/4W	
R769	1-249-429-11	CARBON	10K	5%	1/4W	
R770	1-249-403-11	CARBON	68	5%	1/4W	
R771	1-249-431-11	CARBON	15K	5%	1/4W	
R772	1-249-430-11	CARBON	12K	5%	1/4W	
R773	1-249-433-11	CARBON	22K	5%	1/4W	
R774	1-249-442-11	CARBON	510	5%	1/4W	
R775	1-249-421-11	CARBON	2.2K	5%	1/4W	
R776	1-249-423-11	CARBON	3.3K	5%	1/4W	
R777	1-247-844-11	CARBON	3.6K	5%	1/4W	
R778	1-249-418-11	CARBON	1.2K	5%	1/4W	
R779	1-249-405-11	CARBON	100	5%	1/4W	
R780	1-249-401-11	CARBON	47	5%	1/4W	
R781	1-249-431-11	CARBON	15K	5%	1/4W	
R782	1-249-431-11	CARBON	15K	5%	1/4W	
R783	1-249-437-11	CARBON	47K	5%	1/4W	
R784	1-249-409-11	CARBON	220	5%	1/4W	
R791	1-249-437-11	CARBON	47K	5%	1/4W	
R792	1-249-437-11	CARBON	47K	5%	1/4W	
R801	1-249-425-11	CARBON	4.7K	5%	1/4W	
R802	1-249-433-11	CARBON	22K	5%	1/4W	
R803	1-249-429-11	CARBON	10K	5%	1/4W	
R804	1-249-437-11	CARBON	47K	5%	1/4W	
R805	1-249-429-11	CARBON	10K	5%	1/4W	
R806	1-247-887-00	CARBON	220K	5%	1/4W	
R807	1-249-431-11	CARBON	15K	5%	1/4W	
R808	1-249-427-11	CARBON	6.8K	5%	1/4W	
R809	1-247-887-00	CARBON	220K	5%	1/4W	
R810	⚠ 1-215-864-00	METAL OXIDE	150	5%	1W	F
R850	1-249-425-11	CARBON	4.7K	5%	1/4W	
R851	1-249-425-11	CARBON	4.7K	5%	1/4W	
R891	1-249-425-11	CARBON	4.7K	5%	1/4W	
R892	1-249-425-11	CARBON	4.7K	5%	1/4W	
R893	1-249-425-11	CARBON	4.7K	5%	1/4W	
R894	1-249-425-11	CARBON	4.7K	5%	1/4W	
R895	1-249-429-11	CARBON	10K	5%	1/4W	
R901	1-249-403-11	CARBON	68	5%	1/4W	
R902	1-249-425-11	CARBON	4.7K	5%	1/4W	
R904	1-249-421-11	CARBON	2.2K	5%	1/4W	
R905	1-249-437-11	CARBON	47K	5%	1/4W	
R906	1-249-441-11	CARBON	100K	5%	1/4W	
R907	1-249-441-11	CARBON	100K	5%	1/4W	
R908	1-249-441-11	CARBON	100K	5%	1/4W	
R909	1-249-420-11	CARBON	1.8K	5%	1/4W	
R910	1-247-895-00	CARBON	470K	5%	1/4W	
R911	1-249-433-11	CARBON	22K	5%	1/4W	
R912	1-249-429-11	CARBON	10K	5%	1/4W	
R913	1-249-429-11	CARBON	10K	5%	1/4W	
R914	1-249-429-11	CARBON	10K	5%	1/4W	
R915	1-249-429-11	CARBON	10K	5%	1/4W	
R916	1-249-417-11	CARBON	1K	5%	1/4W	
R917	1-247-887-00	CARBON	220K	5%	1/4W	
R918	1-249-441-11	CARBON	100K	5%	1/4W	
R919	1-249-429-11	CARBON	10K	5%	1/4W	
R921	1-249-429-11	CARBON	10K	5%	1/4W	
R922	1-249-441-11	CARBON	100K	5%	1/4W	
R930	1-247-887-00	CARBON	220K	5%	1/4W	
R931	1-249-425-11	CARBON	4.7K	5%	1/4W	
R932	1-249-439-11	CARBON	68K	5%	1/4W	
R933	1-249-425-11	CARBON	4.7K	5%	1/4W	
R934	1-249-441-11	CARBON	100K	5%	1/4W	
R935	1-249-425-11	CARBON	4.7K	5%	1/4W	
R936	1-249-429-11	CARBON	10K	5%	1/4W	
R937	1-249-429-11	CARBON	10K	5%	1/4W	
R938	1-249-409-11	CARBON	220	5%	1/4W	
R939	1-249-425-11	CARBON	4.7K	5%	1/4W	
R940	1-249-437-11	CARBON	47K	5%	1/4W	
R941	1-249-435-11	CARBON	33K	5%	1/4W	
R942	1-249-437-11	CARBON	47K	5%	1/4W	
R943	1-249-437-11	CARBON	47K	5%	1/4W	
R944	1-249-437-11	CARBON	47K	5%	1/4W	
R946	1-249-393-11	CARBON	10	5%	1/4W	
R948	1-249-417-11	CARBON	1K	5%	1/4W	
R951	1-249-441-11	CARBON	100K	5%	1/4W	
R952	1-249-441-11	CARBON	100K	5%	1/4W	
R953	1-249-441-11	CARBON	100K	5%	1/4W	
R954	1-249-441-11	CARBON	100K	5%	1/4W	
R955	1-249-441-11	CARBON	100K	5%	1/4W	
R956	1-249-425-11	CARBON	4.7K	5%	1/4W	
R957	1-249-425-11	CARBON	4.7K	5%	1/4W	
R958	1-249-425-11	CARBON	4.7K	5%	1/4W	
R960	1-249-441-11	CARBON	100K	5%	1/4W	
R961	1-249-441-11	CARBON	100K	5%	1/4W	
R962	1-249-441-11	CARBON	100K	5%	1/4W	
R963	1-249-441-11	CARBON	100K	5%	1/4W	
R964	1-249-441-11	CARBON	100K	5%	1/4W	
R965	1-249-441-11	CARBON	100K	5%	1/4W	
R966	1-249-429-11	CARBON	10K	5%	1/4W	
R967	1-249-425-11	CARBON	4.7K	5%	1/4W	
R968	1-249-441-11	CARBON	100K	5%	1/4W	
R969	1-249-441-11	CARBON	100K	5%	1/4W	
R970	1-247-744-11	CARBON	270	5%	1/2W	
R971	1-249-406-11	CARBON	120	5%	1/4W	
R972	1-249-407-11	CARBON	150	5%	1/4W	
R973	1-249-409-11	CARBON	220	5%	1/4W	
R974	1-249-409-11	CARBON	220	5%	1/4W	
R975	1-249-409-11	CARBON	220	5%	1/4W	
R976	1-249-425-11	CARBON	4.7K	5%	1/4W	
R977	1-249-421-11	CARBON	2.2K	5%	1/4W	
R978	1-249-421-11	CARBON	2.2K	5%	1/4W	
R979	1-249-421-11	CARBON	2.2K	5%	1/4W	
R980	1-249-425-11	CARBON	4.7K	5%	1/4W	
R981	1-249-425-11	CARBON	4.7K	5%	1/4W	
R982	1-249-425-11	CARBON	4.7K	5%	1/4W	
R983	1-249-425-11	CARBON	4.7K	5%	1/4W	
R984	1-249-425-11	CARBON	4.7K	5%	1/4W	
R985	1-249-421-11	CARBON	2.2K	5%	1/4W	
R986	1-249-421-11	CARBON	2.2K	5%	1/4W	
R987	1-249-425-11	CARBON	4.7K	5%	1/4W	
R988	1-249-425-11	CARBON	4.7K	5%	1/4W	
R989	1-249-425-11	CARBON	4.7K	5%	1/4W	
R992	1-249-425-11	CARBON	4.7K	5%	1/4W	
R993	1-249-425-11	CARBON	4.7K	5%	1/4W	
R994	1-249-429-11	CARBON	10K	5%	1/4W	
R995	1-249-429-11	CARBON	10K	5%	1/4W	
R996	1-249-429-11	CARBON	10K	5%	1/4W	
R997	1-249-429-11	CARBON	10K	5%	1/4W	
R998	1-249-425-11	CARBON	4.7K	5%	1/4W	
R999	1-249-425-11	CARBON	4.7K	5%	1/4W	
RT001	1-237-459-21	RES, ADJ, CARBON 10K				
RT002	1-237-461-21	RES, ADJ, CARBON 50K				
RT003	1-237-462-21	RES, ADJ, CARBON 100K				
RT004	1-237-463-21	RES, ADJ, CARBON 200K				
RT005	1-237-463-21	RES, ADJ, CARBON 200K				
RT006	1-237-460-21	RES, ADJ, CARBON 20K				
RT007	1-237-461-21	RES, ADJ, CARBON 50K				

Note:
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Replace only with part number specified.

Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
RT501	1-224-248-XX	RES, ADJ, SOLID 470
RT551	1-224-248-XX	RES, ADJ, SOLID 470
RV301	1-238-143-11	RES, VAR, CARBON 120K/120K (WITH M301) (VOLUME)
RV382	1-238-140-11	RES, VAR, CARBON 20K/20K (BASS)
RV383	1-238-141-11	RES, VAR, CARBON 20K/20K (MID)
RV384	1-238-141-11	RES, VAR, CARBON 20K/20K (TREBLE)
RV385	1-238-142-11	RES, VAR, CARBON 20K/20K (BALANCE)
RY201	1-515-614-11	RELAY
RY381	1-515-614-11	RELAY
RY382	1-515-614-11	RELAY
RY581	1-515-703-11	RELAY
RY601	⚠1-515-493-00	RELAY
S381	1-571-499-11	SWITCH, PUSH (2 KEY) (SUBSONIC FILTER, LOUDNESS)
S383	1-571-498-11	SWITCH, ROTARY (MODE)
S384	1-571-500-11	SWITCH, PUSH (1 KEY) (TURNOVER 200/400Hz)
S385	1-571-500-11	SWITCH, PUSH (1 KEY) (TURNOVER 3K/6KHz)
S386	1-571-496-11	SWITCH, ROTARY (REC OUT SELECTOR)
S401	1-570-029-11	SWITCH, PUSH (1 KEY) (CARTRIDGE)
S581-1	1-570-897-11	SWITCH, SLIDE (REMOTE) (SPEAKERS)
S581-2	1-571-497-11	SWITCH, ROTARY (REMOTE) (SPEAKERS)
S901	1-571-241-11	SWITCH, PUSH (1 KEY) (POWER)
S902	1-554-303-21	SWITCH, KEY BOARD (TUNING −)
S903	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S904	1-554-303-21	SWITCH, KEY BOARD (PRESET −)
S905	1-554-303-21	SWITCH, KEY BOARD (PRESET +)
S906	1-554-303-21	SWITCH, KEY BOARD (FM LEVEL)
S907	1-554-303-21	SWITCH, KEY BOARD (SENSE)
S908	1-554-303-21	SWITCH, KEY BOARD (ADAPTOR)
S909	1-554-303-21	SWITCH, KEY BOARD (FM/AM)
S910	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S911	1-554-303-21	SWITCH, KEY BOARD (0)
S912	1-554-303-21	SWITCH, KEY BOARD (ENTER)
S913	1-554-303-21	SWITCH, KEY BOARD (MUTING −20dB)
S914	1-554-303-21	SWITCH, KEY BOARD (SOURCE DIRECT)
S915	1-554-303-21	SWITCH, KEY BOARD (TUNE MODE)
S916	1-554-303-21	SWITCH, KEY BOARD (7)
S917	1-554-303-21	SWITCH, KEY BOARD (8)
S918	1-554-303-21	SWITCH, KEY BOARD (9)
S919	1-554-303-21	SWITCH, KEY BOARD (VIDEO 1)
S920	1-554-303-21	SWITCH, KEY BOARD (VIDEO 2)
S921	1-554-303-21	SWITCH, KEY BOARD (VIDEO 3/CDV)
S922	1-554-303-21	SWITCH, KEY BOARD (MUTE/MODE)
S923	1-554-303-21	SWITCH, KEY BOARD (4)
S924	1-554-303-21	SWITCH, KEY BOARD (5)
S925	1-554-303-21	SWITCH, KEY BOARD (6)
S926	1-554-303-21	SWITCH, KEY BOARD (AUX)
S927	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S928	1-554-303-21	SWITCH, KEY BOARD (DAT)
S929	1-554-303-21	SWITCH, KEY BOARD (1)
S930	1-554-303-21	SWITCH, KEY BOARD (2)
S931	1-554-303-21	SWITCH, KEY BOARD (3)
S932	1-554-303-21	SWITCH, KEY BOARD (CD)
S933	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S934	1-554-303-21	SWITCH, KEY BOARD (PHONO)
T601	⚠1-449-243-11	(GX10ES)....TRANSFORMER, POWER
T601	⚠1-449-245-11	(GX9ES : US)....TRANSFORMER, POWER
T602	⚠1-449-244-11	TRANSFORMER, POWER
TM901	1-537-136-11	TERMINAL BOARD (ANT)
TP001	*1-560-060-00	PIN, CONNECTOR 2P
TP002	*1-560-060-00	PIN, CONNECTOR 2P
TP501	*1-535-115-00	TERMINAL (BIAS)
TP551	*1-535-115-00	TERMINAL (BIAS)
VH1	*1-564-241-00	PIN, CONNECTOR 4P
VH2	*1-564-104-00	PIN, CONNECTOR 3P
VH3	*1-564-674-00	PIN, CONNECTOR 8P
VH4	*1-564-320-00	PIN, CONNECTOR 2P
VH5	*1-564-320-00	PIN, CONNECTOR 2P
VH6	*1-564-241-00	PIN, CONNECTOR 4P
X001	1-567-826-21	VIBRATOR, CRYSTAL (7.2MHz)
XT901	1-567-772-11	VIBRATOR, CERAMIC (10.24MHz)

ACCESSORY & PACKING MATERIAL

1-417-141-11	MATCHING TRANSFORMER, ANTENNA
1-463-985-11	REMOTE COMMANDER (RM-P103)
1-501-224-00	ANTENNA, FEEDER
1-501-349-11	ANTENNA, LOOP
3-703-390-01	INSTRUCTION
3-703-450-01	INSTRUCTION
*3-704-346-01	SHEET (STANDARD), PROTECTION
3-786-107-21	MANUAL, INSTRUCTION
3-786-107-31	(GX10ES : CND)....MANUAL, INSTRUCTION
3-795-433-31	(GX10ES : CND)....INSTRUCTION (BROADCASTING STATION LIST)
4-922-202-01	CUSHION
*4-924-903-01	(GX10ES : US)....LABEL, MODEL NUMBER (U2)
*4-924-904-01	(GX9ES)....LABEL, MODEL NUMBER
*4-924-928-01	(GX10ES : CND)....LABEL, MODEL NUMBER
*4-924-959-01	(GX10ES)....INDIVIDUAL CARTON
*4-924-960-01	(GX9ES)....INDIVIDUAL CARTON

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

English
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